



1969-1970 CATALOG

Boston State College

THE COMMONWEALTH OF MASSACHUSETTS

BOSTON STATE COLLEGE

John J. O'Neill, *President*

1852-1924

Boston Normal School

1924-1952

The Teachers College of the City of Boston

1952-1960

State Teachers College at Boston

1960

State College at Boston

1968

Boston State College

*For admission to the College, write to DR. GEORGE F. AHERNE,
Dean of Admissions*

*For admission to the Graduate School, write to
DR. FRANCIS P. O'HARA, Dean of Graduate Studies*

*For admissions to Continuing Studies or the Summer School,
write to MR. THOMAS F. DUNGAN, Director of Continuing Studies,
625 Huntington Avenue, Boston, Massachusetts 02115*

Boston State College

Catalog 1969-1970

625 HUNTINGTON AVENUE
BOSTON, MASSACHUSETTS 02115

Member of

The New England Association of
Colleges and Secondary Schools

The Boston State College Calendar, 1969-1970

SEPTEMBER						
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Calendar 1969-1970

FIRST (FALL) SEMESTER

September 15-19, 1969	Registration Period
September 23	Classes Begin
October 13	Columbus Day, Holiday
November 6	Mid-Term
November 11	Veteran's Day, Holiday
November 27 & 28	Thanksgiving Recess
December 24-January 4, 1970	Christmas Recess
January 12-19	Examination Period

SECOND (SPRING) SEMESTER

January 22-28	Registration Period
January 29	Classes Begin
February 16	Washington's Birthday, Holiday
March 16	Evacuation Day, Holiday
March 17	Mid-Term
March 21-29	Spring Recess
April 20	Patriot's Day, Holiday
May 15-22	Examination Period
June 5	Commencement

Boston State College

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Board of Trustees

Mr. John M. Cataldo, *Chairman*
Mr. Howard C. Smith, *Vice Chairman*
Mr. William E. Aubuchon, Jr.
Mrs. J. Girard Chandler
Dr. Kenneth R. Fox
Dr. Charles C. Halbower
Captain John S. Keating
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Mrs. Sol W. Weltman

Division of State Colleges

Francis X. Guindon, *director*



General Information

In September, 1969, the institution known as Boston State College will begin its 118th year of education for service. Under the direction of the Trustees of State colleges, the college operates as a commuter institution, offering programs in the liberal arts and in teacher education.

A History of the College

In 1851, Nathan Bishop, first superintendent of Boston schools, recommended the establishment of a normal school. A year later the Boston City Council passed an act establishing the Boston Normal School as a pretext to obtain some education for young women beyond training in grammar grades. At that time there was only one other city normal school and only seven other public institutions of that nature in the United States, three of which were in Massachusetts.

In the same year (1852), 86 girls stepped out of their grammar school classes to embark on a "glorious new profession of teaching" in the Adams School House on Mason Street.

Two years later there was a stronger demand for a public high school for girls, and, although the request was refused in that form, a number of high school studies were added to the Normal School work, and the course was lengthened from two to three years. The title of the Girls' High and Normal School was then adopted.

Near the close of the Civil War the work had grown to such an extent that a training department was organized in 1864 for practice teaching and for the observation of school work. Some six years later the number of students had increased to such a degree, about 350 were enrolled, that it was deemed advisable to move to the new building which had been built on West Newton Street.

Existence of the Normal School as a separate institution dated from 1872 when the School Committee decided the Normal and high school

should thereafter be kept apart, thus returning the "normal school to its original condition as a separate school."

About this time a fourth year of work was added to the course of study in the Girls' High School. It was required that each applicant for admission to the Normal School should complete the four years of high school preparation before being accepted. By this means the Boston Normal School was given the distinction of being the first normal school in the country to demand four years of high school work as an admission requirement.

First president was Loring Lothrop. Twenty years later Dr. Larkin Dunton was named as first headmaster of the Normal School in its independent existence. Upon his death in 1899, after 27 years of leadership, he was succeeded by Wallace C. Boyden who had acted as assistant for many years to Dr. Dunton.

In 1888 the Normal School course was extended from its original length of one year to 1½ years, and in 1899 kindergarten training was added as a supplementary course. Kindergarten training was in its infancy then, and the Boston Normal School was the first public institution to give training in that line.

In 1892, the time required for matriculation was increased to two full years, and in 1913 it was lengthened to three years with greater attention given to kindergarten work. During the same year the University Extension Commission, after careful inspection, certified credit toward the degree of Associate in Arts in seven full courses out of the 17 offered.

In 1922, with the addition of two four-year courses, an opportunity was given to students to qualify for the degrees of Bachelor of Education and Bachelor of Science in Education.

Then in 1924 the school's name was changed to the Teachers' College of the City of Boston. The following year the college was granted the right to award a Master of Education degree.

The depression of the 1930's saw a clamor to abolish the school. This was defeated. In 1942 the college was accredited by the American Association of Colleges for Teacher Education after a 20-year wait, under the leadership of Dr. William Kennedy, president of the college from 1929 to 1948.

In 1948 men were admitted to the four-year course in Elementary Education following a 41-year wait, since men had been admitted to the Normal School in 1904. It was also during this year (1948) that Dr. William F. Looney took over the helm as the college's fifth president.

Probably the most significant event in the history of the college occurred in 1952 when, by a joint act of the Boston School Committee and the Massachusetts General Court, the Teachers' College became a state college under the Massachusetts Department of Education. It was now called the State Teachers College at Boston. As a state institution it started a period of steady growth and expanded offerings.

In 1960 the Massachusetts legislature passed an act eliminating the word "teachers" from the name of the state supported college. The State Teachers College at Boston thus became State College at Boston with the power to grant Bachelor of Arts and Bachelor of Science degrees in non-education courses.

Expansion of the college has been rapid during the past 60 years. In 1907 the school moved to its present Huntington Avenue campus. In 1964, the new William H. J. Kennedy Building was opened providing classrooms, modern laboratories, lecture halls, a new cafeteria and student lounge, and offices of the deans and Student Government Association.

Three years later the college added to its ever-growing complex a new building with gymnasium and classroom facilities.

The Evening Undergraduate College commenced in September, 1965, under the guidance of Dr. Looney and Dean Gerard M. O'Meara.

Dr. John J. O'Neill succeeded Dr. Looney as the college's sixth president on September 1, 1968.

Purpose

The motto of the College is "Education for Service." In both its liberal arts and teacher training programs the college aims at the fullest possible development of the individual through general education, professional training and specialization and participation in college activities. The graduate should be prepared for full and effective participation in the life of the community, state, and nation. To fulfill this purpose,

the college aims to provide educational opportunities for as many qualified students as its facilities and resources will allow.

Accreditation and Affiliation

Boston State College is accredited by the New England Association of Colleges and Secondary Schools.

The New England Association of Colleges and Secondary Schools accredits schools and colleges in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school or college has been carefully evaluated and found to meet standards agreed upon by qualified educators. Colleges support the efforts of public school and community officials to have their secondary school meet the standards of membership.

It also holds institutional membership in the following organizations:

- American Association of Colleges for Teacher Education
- Eastern States Association of Professional Schools for Education
- New England Teacher Preparation Association
- Association of State Colleges and Universities
- American Association of Colleges

Admission

How and when to make application:

Applications for admission to all Undergraduate programs may be obtained by writing to the Admissions office.

Admissions for Graduate Programs are handled by the office of Dean of Graduate Studies. Both offices are located in the Administration Building. Applications will be available after October 1, 1969.

Entrance Requirements

Each applicant must be a high school graduate with at least 16 units of work or equivalent preparation. The Equivalency Certificate issued by the Massachusetts State Department of Education is acceptable in lieu of a high school diploma.

The applicant must also successfully complete the Scholastic Aptitude tests and three achievement tests administered by the College Entrance

Examination Board. One Achievement test must be English; the other two may be of the candidates own choosing.

Good health as evidenced by a physical examination report.

A personal interview may be required at the discretion of the Admissions office.

Secondary school transcripts should be sent to the office of admissions following the end of the first marking period of the senior year.

Early Acceptance

An applicant may be accepted by the college after the first marking period of the senior year, if he has completed successfully the Scholastic Aptitude Test and the three achievement tests and has a 3.0 B average in the highest 16 units of high school work. Eight of these units must be as follows: English (including Grade 12) = 4 units; College preparatory Mathematics = 2 units; American History = 1 unit; Biology, Chemistry or Physics = 1 unit. Students wishing to obtain a Bachelor of Arts Degree must also present 2 units in a foreign language.

Regular Acceptance

A student not eligible for early acceptance may qualify for regular acceptance if he meets the general requirements and has the following high school units: English (including Grade 1) = 4 units; Mathematics = 2 units; American History = 1 unit; Science = 1 unit. Applicants for the Bachelor of Arts Program must also present 2 units in a foreign language.

Advanced Placement

Applicants for admission to advanced standing, seeking transfer credits from other colleges and universities must meet the general admission requirements and must submit official transcripts, and letters of recommendation from the deans of all post-secondary institutions attended.

The Committee on Admissions will consider on an individual basis the status of applicants submitting scores for the Advanced Placement Tests of the College Entrance Examination Board.

Tuition and Fees

Registration Fee: Each entering student must pay a registration fee of \$20.00 following notification of acceptance. This fee is non-refundable, but is deducted from the first tuition payment of students who attend. A \$2.50 registration fee is required of each student attending classes in the Program of Continuing Studies.

TUITION

I. For Residents of Massachusetts:

- a. Full-time attendance—\$100.00 per semester payable at the beginning of the semester.
- b. Part-time day students—\$7.00 per semester hour.
- c. Program of Continuing Studies—\$18.00 per semester hour.
- d. Auditor in Program of Continuing Studies—\$11.00 per semester hour.

II. For Non-Residents of Massachusetts:

- a. Full-time attendance—\$300.00 per semester payable at the beginning of the semester.
- b. Part-time day students—\$21.00 per semester hour.
- c. Program of Continuing Studies—\$25.00 per semester hour.
- d. Auditor in Program of Continuing Studies—\$11.00 per semester hour.

FEES

Student Activities Fee—\$12.50 per semester

Athletic Fee—\$12.50 per semester

Every undergraduate student (except in the Program of Continuing Studies) is required to pay these fees. Neither is refundable. Every student thus becomes a member of the Student Government Association with the privileges of participation in all its activities and programs.

Refund Schedule

Within the first two weeks from the beginning of the semester—100%.

During the next four weeks—80%.

After the sixth week—No refund.

NOTE: Registration fee (\$20) for incoming students is deducted before refunds are made.

Student Financial Aid

I. Money Distributed by the College Financial Aid Office.

ELIGIBILITY

A prospective participant in the three federal programs at Boston State, I-1, I-2, I-3, listed below, must fulfill the following requirements at Boston State College:

- a. Be enrolled, or accepted for enrollment as a full-time student.
- b. Be in need of financial assistance to pursue his course of study.
- c. Be capable of maintaining good academic standing in this course of study.
- d. Be a citizen of the United States, or owe permanent allegiance to the United States, or meet other specific criteria regarding his residence or immigration status.
- e. Must submit, annually, a Parent's Confidential Statement or a Student's Confidential Statement, before April 1, prior to the academic year he plans to attend.
- f. Must submit an aid application to the Financial Aid Office at the college.

Any inquiries concerning student financial aid programs at Boston State College should be addressed to:

Financial Aid Director
Boston State College
625 Huntington Avenue
Boston, Mass. 02115
Room 111A 566-4545, ext. 26 or 28

1. Educational Opportunity Grants—(EOG)—High school graduates with exceptional financial need may qualify for an outright grant of funds. To qualify, students must either be accepted for

enrollment, or be in good standing at the college, yet be financially unable to attend without an opportunity grant. Once awarded to a student, the grant will continue for the duration of his undergraduate study if he continues to qualify for assistance, up to a maximum of four years.

Grants range from a minimum of \$200 to a maximum of \$1000 per year. An EOG grant must be matched by and can be no more than the assistance the student receives from the following sources: National Defense Student Loan, State or Private Scholarships, or the College Work Study Program.

2. College Work Study Program—(CWSP)—Through the College Work Study Program, needy students, particularly those from low-income families, have an opportunity to earn part of their college expenses. The student may be given part time employment in the college or in an off-campus agency and be paid for the number of hours he works.

So that the employment will not interfere with the student's academic progress, work under this program is limited to 15 hours per week while classes are in session, and 40 hours per week during vacation periods and summers.

3. *National Defense Student Loan Program*—(NDSL)—High school graduates who have been accepted for enrollment at this college, or students already attending this college and who need financial assistance to meet the costs of attending college and eligible for student loans. An eligible undergraduate may borrow up to a maximum of \$1000 each academic year to a total of \$5000.
 - a. *Repayment* of the loan begins 9 months after the borrower ceases to carry at least half of the normal full-time academic work load, and repayment ends, 10 years and 9 months after such date. No interest on the loan may accrue prior to the beginning of the repayment schedule and interest thereafter is to be paid at the rate of three per cent per year.
 - b. *Deferment*—Repayment may be deferred up to a total of 3 years while a borrower is serving in the Armed Forces, with the Peace Corps, or as a Volunteer in Service to America

(VISTA). Repayment is deferred for as long as a borrower is enrolled at an institution of higher education and is carrying at least a half-time academic work load.

- c. *Forgiveness Clause for Teachers*—If the borrower becomes a full-time teacher in a public or non-profit elementary or secondary school, or in any institution of higher education, the loan may be cancelled at the rate of ten per cent per year to a maximum of fifty per cent (five years) of the total loan. Persons who work as full-time teachers in elementary or secondary schools, located in hardship areas, or as full-time teachers for handicapped children, will be forgiven 15 per cent per year. At the 15 per cent rate, it is possible for the borrower to obtain cancellation of the total principal of his loan.

II. *Money Distributed by Agencies Outside the College.*

1. *Massachusetts Board of Higher Education Scholarships*—The Board of Higher Education is authorized to grant full tuition scholarships to needy and academically worthy full-time students. Applicants must be U.S. citizens, domiciled in Massachusetts, and must pursue a program of higher education. These awards are renewable for no more than three years, provided the student's academic standing is satisfactory, and his need is continuing. High School seniors must have taken the College Entrance Examination Board test (S.A.T.) prior to applying for these grants. All applicants must file either a Parent's Confidential Statement or a Student's Confidential Statement, designating State of Massachusetts as one of the agencies to receive a copy.
2. *Merit Scholarships*—The Massachusetts Board of Higher Education is authorized to grant four Merit Scholarships in each Massachusetts Senatorial District. Applicants must be domiciled in Massachusetts, and their selection will be based on grades achieved in a competitive examination. The Merit Scholarships are applicable toward tuition expenses only, and are renewable for no more than three undergraduate years, provided the recipient remains a student in good standing, academically.

Specific inquiries regarding programs II-1, and II-2 should be addressed to:

Board of Higher Education
Scholarship Office
182 Tremont Street
Boston, Mass. 02111, Tel. No. 727-5367

3. *Massachusetts Higher Education Loan Plan*—(H.E.L.P.)—The education of young people from middle- or upper-income groups, frequently places a financial burden on their families, particularly if there are a number of children who want to go to college. In many cases, the student cannot qualify for student employment or a student loan. Even when commercial credit sources are available, repayment generally runs concurrently with the years the student attends college. To help these young people and their families, a Guaranteed Loan Program is now authorized.
 - a. *Objective*—The major objective of this program is to make loan insurance available to any college student who wants to borrow.
 - b. *To qualify*—In order to qualify for this plan, students must be accepted at or enrolled in Boston State College.
 - c. *Repayment*—A student who is a permanent resident of the United States may borrow up to \$1000 a year for undergraduate school. Upon leaving school, there is a charge of seven per cent per year on the unpaid loan balance. Monthly repayment of the loan begins within one year after graduation.

Specific inquiries regarding this program should be addressed to:

Massachusetts Higher Education Assistance Corp.
511 Statler Building
Boston, Mass. 02116, Tel. No. 426-9434

III. *Veteran's Benefits Available.*

1. *Tuition Aid for Massachusetts Veterans*—The Massachusetts Department of Education has been authorized to issue a Certificate of Exemption from payment of tuition. Exemption of payment is for any state institution of higher education in Massachusetts, and it is for any veteran whose service was credited to the Commonwealth of Massachusetts. The veteran must have served more than 180 days on active duty in the U.S. Armed Forces after February 1, 1955.

The certificate entitles the veteran to free tuition during the academic year for which it was issued. These certificates are renewable for no more than three years, provided the student's academic standing is satisfactory.

Specific inquiries regarding this program should be addressed to:

Commissioner of Education
182 Tremont Street
Boston, Mass. 02111

2. *Veterans Benefits*—Public Law 89-358 provides benefits for veterans of the U.S. Armed Services who have served on active duty at least 180 days and who were discharged under conditions other than dishonorable after January 31, 1955. Payments are based on one month of benefits for each month of active duty, not exceeding 36 months. Allowances are not paid beyond eight years from the date of the last discharge, or beyond eight years if discharge was after June 1, 1966. Benefits amount to \$130 per month for full-time students without dependents, married students receive larger benefits according to the number of their dependents.



General Regulations

REGISTRATION

1. *Registration dates.* Students should register on the registration dates announced in the College calendar. Permission of the Registrar should be secured for the registration on dates other than those assigned.
2. *Curriculum Advisors.* Students working toward degrees in Liberal Arts or in secondary education must consult the chairman of their major department (or his representative) before electing courses.
3. *Course load.* Normal course load varies between fifteen and eighteen semester hours. Individual variation from this normal load may be accomplished only with the permission of the dean of the class.
4. *Transfer of Credits.* Students regularly enrolled who wish to secure credit for courses taken at other institutions or in the Summer Session must secure permission from their deans prior to enrolling for these courses.
5. *Withdrawal from courses.* Students may withdraw from courses only during the first four weeks of the term and with the permission of the dean of the class. Otherwise a grade of o is recorded.
6. *Withdrawal from the college.*

Students who find it necessary to withdraw from the College should do so only after consultation with their Deans.

Until a student withdraws officially, he is registered in all courses and will receive grades appropriate to his performance. Students who cease attending classes without officially withdrawing will receive a grade of o.

ATTENDANCE

Regular attendance at all classes is essential if a student is to receive full benefit from his studies. Attendance is taken in each class by the

instructor. Students must assume responsibility for informing their deans of the reasons for absences due to illness, etc.

Absence from a class in which a scheduled quiz or examination is given should be reported at once to the dean of the class. Permission to make up the quiz or examination may be granted only by the dean.

ACADEMIC STANDING

The following quality-point ratio system is used at Boston State College:

A = 4, B = 3, C = 2, D = 1, F = 0.

A student must maintain a quality point ratio of 1.5 at the end of the freshman year, 1.75 at the end of the sophomore year, 2.0 at the end of the junior year and senior year, and the student must have a final ratio of 2.0 in order to graduate. A student must withdraw from the college at the end of the first semester of the freshman year if his ratio is below 1.0.

A student who is dropped because of failing grades due to illness, home difficulties, or similar circumstances may be given permission to repeat the year at the discretion of the president.

The determination of quality points is made at the end of each college year, and, excepting when the year is repeated, the number of points is not affected by grades in courses subsequently taken and passed.

"F" grades can never be removed, but the subjects in which they have been received must be repeated and passed, or, in the case of electives, other approved courses must be taken and passed either in approved summer sessions, or when possible, during the regular college year. Continuing subjects in which "F" grades have been received must be successfully repeated before the student may take advanced work.

Transcripts

Upon graduation one certified copy of a student's record will be issued without charge. Additional copies may be obtained upon request at the rate of \$1.00 per copy. During final examination and registration periods a time delay of about two weeks must be anticipated in the honoring of transcript requests.

Student Services

LIBRARY

The college library is located in a wing of the Administration Building. Materials for research and course assignments are located for easy accessibility.

The library collection has doubled in the past five years and several thousand volumes are added yearly. The periodical collection provides excellent coverage of scholarly journals and professional periodicals. A large curriculum library, useful for students in the teacher preparation programs, is maintained. Library facilities include quiet areas for study and research, a specially equipped room for listening to phonograph and tape recordings, and microfilm readers.

GUIDANCE

Orientation: An orientation program under the supervision of the Deans of Students is provided for new students at the beginning of each term. It includes testing, health examinations, introduction of student and administration officers, and exploration of college services, curricula, and activities.

Counseling: The office of the Dean of Students offers educational and personal counseling services.

HEALTH

The day health office is located in the new gym building, Room 305G. An evening nurse is on duty in Room 201A.

Campus

LOCATION AND ENVIRONMENT

Boston State College is located on Huntington Avenue between Longwood Avenue and Evans Way in Boston's educational and cultural center. In the immediate vicinity are Simmons and Emmanuel Colleges, the Harvard Medical and Dental Schools, Wentworth Institute, Northeastern University, and the Massachusetts College of Art. The Boston Museum of Fine Arts and the Isabella Stewart Gardner Museum offer unusual cultural advantages both in their collections and through their fine concerts and lectures.

ADMINISTRATION BUILDING

The Administration Building contains the office of the President and those of other administrative departments. The college library is also located here, as are the facilities of the Department of Foreign Languages, which includes a modern language laboratory.

COLLINS BUILDING

Here are the offices and classrooms of the Departments of Mathematics and Art. In the basement is a large student lounge area.

NORTH BUILDING

This building contains North Hall, a large auditorium, and houses the Departments of English, History, Political Science, Music, Psychology, Economics and Sociology.

WILLIAM H. J. KENNEDY BUILDING

The Kennedy Building, completed in 1964, offers modern facilities for the teaching of a wide range of course offerings in Biology, Chemistry, Geography, Earth Science, and Physics. The lower floors contain the cafeteria, lounges for student and faculty, offices for student organizations, and the offices of the various deans.

PHYSICAL EDUCATION BUILDINGS

A newly renovated gymnasium building contains physical education and locker facilities for both men and women. The new Physical Education building, opened in September, 1967, contains offices and classrooms, a large gymnasium seating over 1000, as well as a variety of other facilities, including squash courts, dance studios, apparatus rooms, and a rifle range.





BOSTON STATE



Organizations and Activities

STUDENT GOVERNMENT ASSOCIATION

Every student is a member of the Student Government Association. Through its officers and representatives, the Association oversees student activities and represents the student body in matters of student interest. The Association sponsors several social events for the whole student body, including the All College Banquet, several dances, a musical, and a drama contest.

ATHLETICS

The Athletic program is based on the premise that athletics in the total educational process is of tremendous value both to the individual and his college.

At present Boston State is a member of the National Collegiate Athletic Association, the Eastern Collegiate Athletic Conference, and the New England State College Athletic Conference. Teams are sponsored in the following sports: Cross Country, Hockey, Basketball, Wrestling, Baseball, Rifle, Pistol, Indoor and Outdoor Track and Golf. An active intramural program is operated throughout the school year. Intramural activities include: touch football, basketball, badminton, volleyball, boxing, golf and tennis. The coaching staff is composed of men nationally recognized as experts in their fields.

WOMEN'S RECREATION ASSOCIATION

The primary concern of the Women's Recreation Association is to provide activities and opportunities for students to develop or improve themselves physically, mentally, socially and emotionally. The main goal of the W.R.A. is to help produce well-rounded leaders of tomorrow.

The student officers and activity leaders work closely with the members of the Women's Physical Education Department in planning and

organizing co-ed events, competitive sports for women, intramurals and special activity clubs.

Varsity teams are sponsored in the following sports: Basketball, Softball, Volleyball, Co-Ed Volleyball, Tennis and Cheerleading.

In addition, the W.R.A. sponsors the following clubs: Golf, Gymnastics, Folk and Square Dance, Modern Dance, Synchronized Swimming, Lacrosse, Judo, Riflery and Squash. Special activities include a Cook-Out, a Splash Party, a Student-Faculty competitive event, and the Annual Banquet.

VOLUNTEER SERVICE

The Volunteer Service Bureau operates on the principle of service for others, aiding local agencies through recreation leadership, group work, guidance and social services. Members offer unpaid service to agencies throughout Metropolitan Boston.

PUBLICATIONS

Chalkdust, the college newspaper, is published weekly throughout the school year. Staff work is open to all students interested in gaining competence in writing and experience in newspaper work.

Spectrum, the college literary magazine, is published irregularly during the year. It offers opportunity for those interested in creative writing and photography. Any member of the student body is eligible to contribute.

Lampas, the yearbook, is edited each year by members of the senior class.

DRAMATICS

Each year, several opportunities for participation in dramatics occur, in the presentation of the Drama Club, in the college musical, and in a one-act play contest. Participation is open to any interested student.

LECTURE SOCIETY

Each year the Lecture Society sponsors a series of lectures by outstanding speakers and by figures in public life.

CLUBS

A number of clubs and societies are maintained by the students to provide opportunities for activities of interest. These include religious clubs, Newman, Hillel, Protestant Student Association, and Orthodox Club. Other clubs relate to subject area such as French, Spanish, Psychology, Mathematics, Literature, and World Affairs.

HONOR SOCIETIES

Chapters of three national honor societies are presently operating on the campus: the Mu Iota Chapter of Phi Alpha Theta, the international honor society in history; Iota Rho Chapter of Gamma Theta Upsilon, the professional Geography fraternity; and a chapter of Psi Chi, the national honor society in Psychology.



Undergraduate Curricula

*(Effective September, 1969 for Freshmen and Freshmen
Transfer Students)*

Boston State College offers undergraduate programs leading to the Bachelor of Arts, Bachelor of Science and Bachelor of Science in Education. Candidates for these degrees shall satisfy the general education requirements of the college.

Candidates for the degrees of Bachelor of Arts and Bachelor of Science must develop major and minor concentration. In addition, those who seek the Bachelor of Arts degree must satisfy the foreign language requirement.

The Bachelor of Science in Education degree is offered in two fields, kindergarten-primary and elementary education. Candidates for this degree shall major in one of these fields and shall complete the requirement in student teaching.

General Education Requirement

Boston State College has long believed in a general education curriculum uniting the biological sciences and physical sciences, mathematics, the social sciences, and the humanities. The curriculum reflects this philosophy.

For graduation all students should demonstrate competence in the following: Physical Education, English Composition, Humanities, Social Sciences, Natural Sciences, and Mathematics.

The college has made provision for students of outstanding ability to forego those courses in which they are able to display a high level of knowledge. If a student is able to demonstrate his proficiency in any Group I course by his performance in an Advanced Placement Test or by some other criterion satisfactory to the department, he may select

another course in the appropriate discipline with the advice and consent of the department chairman.

Required of All Students

		6 SHC
Physical Education	4 Semester Courses	0 SH
English Composition	E101-102	6 SH
Effective Speech	E103	0 SH

The English Composition requirement may be satisfied by the achievement of a score of 5, 4, or 3 in the Advanced Placement Test of the CEEB. If a student attains an A in E101, then he may begin his Literature sequence in the second semester. Students may satisfy the speech requirement by successfully passing, during the sophomore year, the proficiency examination given by the Speech Department.

Humanities

This requirement is to be satisfied by completing eighteen semester hour credits, six of which must be met by choosing at least one two course sequence from Group I and six by choosing at least two courses from at least two of the disciplines from Group III.

Group I

Major British Writers	E201-202	6 SH
Major American Writers	E421-422	6 SH
Masterpieces of World Literature	E203-204	6 SH
Survey of Spanish Literature	Sp211-212	6 SH
Survey of French Literature	Fr211-212	6 SH
Survey of German Literature	Gr211-212	6 SH

Group II

Plays of Shakespeare	E301	3 SH
Romantic Poetry	E303	3 SH
Modern Drama	E307	3 SH
Advanced Writing	E322	3 SH
Victorian Poetry	E404	3 SH
Modern Novel	E406	3 SH

Group III

Basic Studies in Music	Ms205	3 SH
Structure of the Visual Arts	A202	3 SH
Art Appreciation	A201	3 SH
Music Appreciation	Ms201	3 SH
Problems of Philosophy	Ph101	3 SH
Ethics	Ph301	3 SH
Philosophy of Man	Ph102	3 SH
Introduction to Oriental Art		3 SH
Logic	Ph203	3 SH

Social Sciences

This requirement is to be satisfied by completing fifteen semester hour credits, six of which must be met by choosing one two course sequence from Group I. Of the remaining nine hours at least one course must be selected from Group II and at least one from Group III.

Group I

Western Civilization	H101-102	6 SH
Ideas of Western Man	H103-104	6 SH
World History	H105-106	6 SH

Group II

* American Government	Gv101	3 SH
Comparative Government	Gv102	3 SH
Principles of Economics	Ec101	3 SH
Human Geography	G302	3 SH
* American History to 1870	H201	3 SH
American History since 1870	H202	3 SH
Urban Geography	G403	3 SH

Group III

Introduction to Psychology	Py101	3 SH
Introduction to Anthropology	So301	3 SH
Sociology	So201	3 SH

* Massachusetts State Law requires that a student take a three semester hour course emphasizing the United States and Massachusetts Constitutions. This requirement is met by taking either H201 or Gv101.

Natural Sciences and Mathematics

This requirement is to be satisfied by taking a total of five courses. At least one two course sequence must be selected from Group I and at least one course from Group III.

Group I

** Chemistry	Ch101-102	8 SH
General Chemistry	Ch103-104	8 SH
Biology	Bi201-202	6 SH
Physics	P101-102	8 SH
Physics	P301-302	6 SH
Geology	Gl101-102	8 SH

Group II

Physical Science	Ps101-102	6 SH
Oceanography	Gl202	3 SH
Oceanography	Gl202	3 SH
Physical Geography	G301	3 SH
Astronomy	P306	3 SH
Weather and Climate	G406	3 SH
** Structure of Number System	M224	3 SH
** Basic Modern Math	M305	3 SH

Group III

Fund. Principles of Math	M101	3 SH
Intro. to Modern Math	M103	3 SH
Calculus 1A	M107	4 SH
Mathematical Analysis I	M109	3 SH

** A student may not take both Ch101-102 and Ch103-104 nor Math 224 and Math 305 for credit.

Total number of general education semester hours credit 54-57 hours; 51-57 hours if second semester of English Composition is excused. It is recommended that all students substantially complete these requirements in their first four semesters.

Requirements for the Degree of Bachelor of Arts or Bachelor of Science

MAJOR AND MINOR CONCENTRATIONS

The requirement for the A.B. or B.S. major concentration shall consist of thirty to thirty-six hours to be determined by the department.* The minor concentration shall consist of eighteen to twenty-one hours to be determined by the department offering the minor. All courses taken in a department shall count toward the major and minor concentrations; however, departments may specify a core of courses required for the major and minor. A minimum of 120 semester hour credits (exclusive of student teaching) shall be required for graduation.

FOREIGN LANGUAGE REQUIREMENT

Candidates for the Degree of Bachelor of Arts may satisfy the foreign language requirement by the successful completion of a course at the advanced level (131-132) or above, or by the successful completion of two years work in one language at college level. This requirement may also be met by a superior performance on the achievement test of the CEEB.

Teacher Preparation

Students who plan to teach in the secondary schools shall qualify for the degree of Bachelor of Arts or Bachelor of Science and shall minor in secondary education. In addition they must student teach for a period of time not to exceed eight weeks, for which they will receive a maximum of six credits.

Requirements for the Degree of Bachelor of Science in Education

Candidates for the degree of Bachelor of Science in Education shall develop a major of thirty to thirty-six hours to be determined by the department. Elective hours may be used by a student to develop a minor in some other field. All courses taken in the department shall count toward the major, however, the department may specify a core of courses

* Psychology excepted, where twenty-four hours shall constitute a major.

required for the major. In addition to the major, candidates shall teach for one semester for which they will receive twelve credits.

The graduation requirement for this degree shall be 126 semester hours credits.

DEPARTMENTAL RESPONSIBILITY FOR ADVISING STUDENTS

If a department requires or advises courses in other departments beyond the major field, students should be apprised of these extra requirements when they choose a major.

Students who will be Sophomores in September, 1969, or transfer students who enter the college at that level or above shall satisfy the requirements of the curricula in effect on September 1, 1968.

Degrees

Boston State College offers undergraduate programs leading to the degrees of Bachelor of Science in Education, Bachelor of Arts, and Bachelor of Science.

The B.S. Ed. degree is offered in three fields, kindergarten-primary, elementary, and secondary education. Candidates for the degree must fulfill the requirements in general education and complete the required program of professional preparation including practice teaching. For the degree in secondary education, a student must also complete, beyond the requirements of general education, at least twenty-four semester hours in a major academic field.

There are two curricula leading to the A.B. degree, one including teacher preparation, the other without this professional training. All candidates for this degree must complete beyond general education at least twenty-four semester hours in a major academic field. Those who elect the teacher-preparation program must complete at least twenty-four semester hours in secondary education, including practice teaching. Candidates for the non-teaching degree must complete, in addition to their major, at least eighteen semester hours in a minor academic field. All candidates for the A.B. degree must meet the degree requirements in foreign language and mathematics.

The foreign language requirement may be met by the successful completion of a course at the advanced level (131-132) or above, or by the successful completion of two years work in one language at college level. This requirement may also be met by a superior performance on the achievement test of the CEEB.

Each candidate for the degree of Bachelor of Science must complete beyond the required program of general education at least twenty-four semester hours in a major academic field and at least eighteen semester hours in a minor academic field. Each candidate for the B.S. degree must also complete the degree requirements in mathematics.

MAJOR AND MINOR FIELDS

Candidates in secondary education or a non-teaching program may choose a major from the following fields:

Biology	History
Chemistry	Mathematics
Earth Science	Physical Education
English	Physics
French	Political Science
Geography	Spanish

The following major fields are open only to those in the non-teaching preparation programs:

Economics	Sociology
Metropolitan Studies	Psychology
Political Science	Philosophy
Latin American Studies	

A minor may be developed in any of the major fields and in any of the following:

Anthropology, Art, German, Music

HONORS PROGRAM

Students who have achieved high grades in their Freshman and Sophomore years may apply for admission into the honors program at the beginning of their Junior year. If admitted to this program, the candidate

for honors must pursue a program of independent study and research under the supervision of an academic department. This will ordinarily lead to an undergraduate thesis or its equivalent. Students who complete this program satisfactorily will be awarded their bachelor's degree with honors.

METROPOLITAN STUDIES

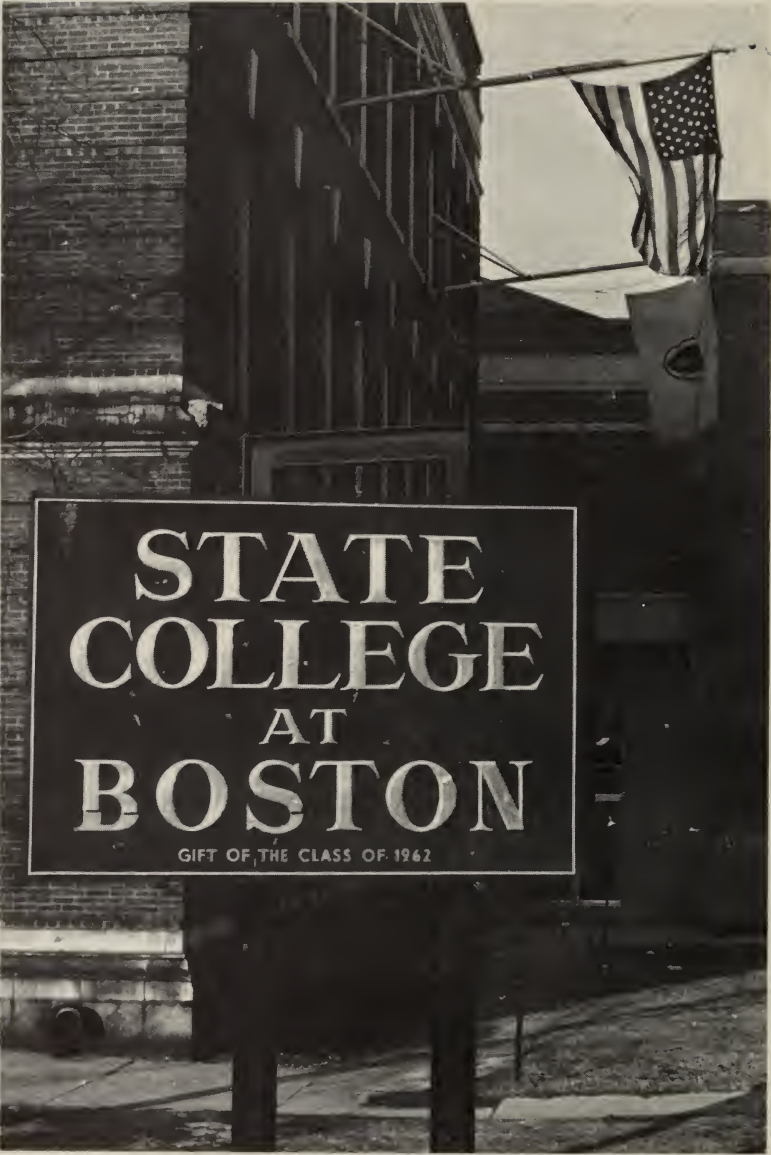
This area of concentration, as designed, proposes an inter-disciplinary academic approach within the Social Studies framework. This program has been developed primarily for those students seeking the A.B. and B.S. non-teaching degree. The major is composed of 36 semester hours equally divided between the academic areas of geography, economics, sociology and political science. The minor will constitute a concentration of 18 semester hours within one major academic department.

For detailed information of course sequences, consult the Metropolitan Studies Chairman, Dr. James P. Jones.

LAW ENFORCEMENT PROGRAM

The Law Enforcement Program is designed to meet the educational needs of today's police personnel in a dynamically changing society. The emphasis rests on the social sciences and is an inter-departmental program. The core requirements are Le101 Introduction to Law Enforcement, Ob211 Criminalistics and G403 Urban Geography. In addition to the core requirements, the student majoring in the Law Enforcement Program must elect 21 semester hours in the social sciences. The minor will constitute the core requirements and an additional 9 semester hours in the social sciences. All course elections must have the approval of the program director, Dr. James P. Jones.



A black and white photograph of a brick building under construction or renovation. Scaffolding is visible on the right side of the building. An American flag is flying from a pole on the right. In the foreground, there is a dark, rectangular sign with white text.

STATE COLLEGE AT BOSTON

GIFT OF THE CLASS OF 1962

Evening Undergraduate College

The Evening Undergraduate College offers to students an opportunity to pursue a program of study during the evening hours. Those students wishing to pursue a degree program in the Evening College may work toward a Bachelor of Science degree with a major in either English or History. These degrees will be non-teaching degrees.

Students may take a minimum of six semester hours of credit and a maximum of eighteen semester hours of credit each semester. The curriculum is identical to that of the Day College.

FACULTY

The Faculty of the Evening College is composed of the faculty of the Day College and selected visiting lecturers.

CLASS SESSIONS

From September to June classes are held Monday through Thursday evenings from 4:30 p.m. to 9:15 p.m.

ADMISSION PROCEDURES

1. Application filed with Boston State College.
2. Transcript of high school record.
3. The following tests given by the College Entrance Examination Board:
 - a. Scholastic Aptitude Test (both verbal and mathematical)
 - b. English Achievement Test (exclusive of writing sample)
 - c. Two other Achievement Tests of each candidate's own choosing.
4. A personal interview with the Admissions Officers of Boston State College.

TUITION

Tuition for the Evening College is the same as for the Day College. However, for those students not enrolled in a full time program, adjustments will be made in the tuition.

STUDENT ACTIVITY FEE

Each student is required to pay a Student Activities Fee of \$12.50 per semester. The development of a mature spirit of self-government is encouraged by the college.

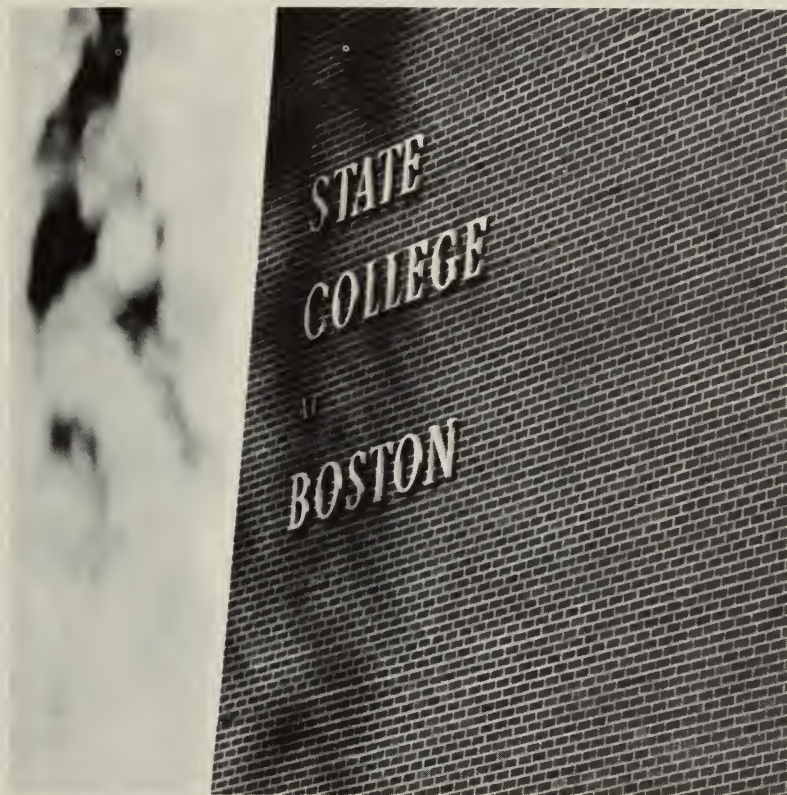
Evening College students elect two representatives to the Student Government Association to represent them and to present their views to this body. Evening College students are encouraged to participate fully in Student Government Activities.

VETERANS NOTICE

Veterans enrolling in the Evening College under the new Educational Assistance must present their certificate of eligibility to the Dean at the time of registration or as soon as possible thereafter. Veterans are expected to follow the same procedure for payment of tuition as all other students.

FURTHER INFORMATION

For further information concerning the Evening Undergraduate College, contact Gerard M. O'Meara, Dean of the Evening College.





Outline of Curricula

Kindergarten-Primary Curriculum

B.S. IN EDUCATION

FIRST YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
E101 English Composition	3	E102 English Composition	3
E103 Effective Speech	2	H1102 Personal Health	2
H101 Western Civilization	3	H102 Western Civilization	3
PE101 Physical Education	0	PE102 Physical Education	0
PY101 General Psychology	3	PY102 Ed. Psychology	3
PS101 Physical Sciences	3	PS102 Physical Sciences	3
Elective	3	Elective	3
	17		17

SECOND YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
A201 Art Appreciation	3	E202 Maj. Br. Writers II	3
PY201 Child Development	2	H202 American History	3
E201 Maj. Br. Writers I	3	Ms206 Music Appreciation	3
H201 Am. History	3	Biz02 Biology	3
PE201 Aquatics	0	Elective	3
Biz01 Biology	3		15
Elective	3		
	17		

THIRD YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
A315 Art for Kind.-Prim.	3	A316 Arts & Crafts	1
Ed311 Communicative Arts	2	Ed312 Communicative Arts	2
Ed313 Kind.-Prim.		Ed314 Kind.-Prim.	
Principles	2	Principles	2
G301 Physical Geography	3	E321 Child-Lit.	2
M305 Basic Modern Math.	3	M316 Prim. Sch. Math.	2
PE301 Physical Ed.	1	G302 Human Geography	3
Elective	3	FA302 First Aid	1
	17	Elective	3
			16

FOURTH YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
PH401 General Philosophy	3	Ed400 Student Teaching	
Ms411 Kind.-Prim. Music	3	and Seminar	14
E421 Maj. Am. Writers	3		14
Ed422 Ed. Measurement	2		
Bi421 Field Biology	3		
Elective	3		
	17		

Elementary Curriculum

B.S. IN EDUCATION

FIRST YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
E101 English Composition	3	E102 English Composition	3
E103 Effective Speech	2	H1102 Personal Health	2
H101 Western Civilization	3	H102 Western Civilization	3
PE101 Physical Education	0	PE102 Physical Education	0
PY101 General Psychology	3	PY102 Ed. Psychology	3
PS101 Physical Sciences	3	PS102 Physical Sciences	3
Elective	3	Elective	3
	17		17

SECOND YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
PY201 Child Development	2	A201 Art Appreciation	3
E201 Maj. Br. Writers I	3	E202 Maj. Br. Writers II	3
H201 Am. Hist. & Govt. I	3	H202 Am. Hist. & Govt. II	3
Ms201 Music Appreciation	3	Bi202 Biology	3
PE201 Aquatics	0	Elective	3
Bi201 Biology	3		<u>15</u>
Elective	3		
	<u>17</u>		

THIRD YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
A325 Art for Elem. Sch.	3	A326 Arts & Crafts	1
Ed321 Communicative Arts	2	Ed322 Communicative Arts	2
Ed323 Principles & Methods of Teaching	2	Ed328 Social Studies and Science Methods	2
M305 Basic Modern Math.	3	E321 Children's Lit.	2
PE301 Physical Education	1	FA302 First Aid	1
G301 Physical Geography	3	G302 Human Geography	3
Elective	3	M326 Math for Elem. Teachers	2
	<u>17</u>	Elective	3
			<u>16</u>

FOURTH YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ed400 Student Teaching and Seminar	14	Ph401 General Philosophy	3
	<u>14</u>	Ed422 Educational Measurement	2
		E421 Maj. Am. Writers	3
		Ms422 Music for Elem. Grades	3
		Bi421 Field Biology	3
		Elective	3
			<u>17</u>

Secondary Curriculum

B.S. IN EDUCATION

FIRST YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
E101 English Composition	3	E102 English Composition	3
E103 Effective Speech	2	H1102 Personal Health	2
H101 Western Civilization	3	H102 Western Civilization	3
PE101 Physical Education	0	PE102 Physical Education	0
PS101 Physical Sciences	3	PS102 Physical Sciences	3
PY101 General Psychology	3	PY102 Ed. Psychology	3
Elective	3	Elective	3
	<u>17</u>		<u>17</u>

SECOND YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
A201 Art Appreciation	3	Ms201 Music Appreciation	3
E201 Maj. Br. Writers I	3	PY231 Adolescent Psychology	2
H201 Am. Hist. & Govt. I	3	E202 Maj. Br. Writers II	3
PE210 Aquatics	0	H202 Am. Hist. & Govt. II	3
Bi201 Biology	3	Bi202 Biology	3
Elective	3	Elective	3
	<u>15</u>		<u>17</u>

THIRD YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ed337 Hist. & Pr. Sec. Ed.	3	FA302 First Aid	1
Ed333 Teaching Procedures	3	Ed336 Subj. Methods	3
Electives	9	Ed334 Curr. of Sec. School	2
	<u>15</u>	Electives	12
			<u>18</u>

FOURTH YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ed430 Student Teaching	7	Electives	15
Ed431 Test & Measurements	3		<u>15</u>
PH401 General Philosophy	3		
E421 Maj. Am. Writers or			
E433 Lang. Structure			
(Required of English			
Majors)	3		
	<u>16</u>		

A.B. Curriculum

(WITHIN TEACHER PREPARATION PROGRAM)

FIRST YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
E101 English Composition	3	E102 English Comp. II	3
E103 Effective Speech	2	H1102 Personal Health	2
H101 West. Civ. I	3	H102 West. Civ. II	3
PE101 Physical Education	0	PE102 Physical Education	0
PS101 Physical Science I	3	PS102 Physical Science II	3
Language Elective	3	Language Elective	3
Math. Elective	3	Elective	3
	<u>17</u>		<u>17</u>

SECOND YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
P101 Gen. Psych.	3	PY231 Adol. Psych.	2
E201 Maj. Br. Writers I	3	E202 Maj. Br. Writers II	3
H201 American History I	3	H202 American History II	3
Bi201 Biology I	3	Bi202 Biology II	3
PE201 Aquatics	0	Electives	6
Electives	6		<u>17</u>
	<u>18</u>		

THIRD YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ed337 Hist. & Pr. Sec. Ed.	3	FA302 First Aid	1
Ed333 Teaching Procedures	3	Ed336 Subj. Methods	3
Electives	9	A201 Art Appreciation	3
	<u>15</u>	Electives	9
			<u>16</u>

FOURTH YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ed430 Student Teaching	7	Ed344 Curr. of Sec. Sch.	2
Ed431 Tests & Measurements	3	Ms201 Music Appr.	3
PH401 General Philosophy	3	Electives	9
E421 Maj. Am. Writers or			<u>14</u>
E433 Lang. Structure			
(Required of English			
Majors)	3		
	<u>16</u>		

A.B. Curriculum

(NON-TEACHING)

FIRST YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
E101 English Comp.	3	E102 English Comp. II	3
H101 West. Civ. I	3	H102 West. Civ. II	3
PE101 Physical Ed.	0	PE102 Physical Ed.	0
PS101 Physical Science I	3	PS102 Physical Science II	3
Language Elective	3	Language Elective	3
Math. Elective	3	Elective	3
	<u>15</u>		<u>15</u>

SECOND YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
E201 Maj. Br. Writers I	3	E202 Maj. Br. Writers II	3
H201 American Hist. I	3	H202 American Hist. II	3
Bi201 Biology I	3	Bi202 Biology II	3
PE201 Aquatics	0	Electives	6
Electives	6		<u>15</u>
	<u>15</u>		

THIRD YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
A201 Art Appreciation	3	Ms201 Music Appreciation	3
Electives	12	Electives	12
	<u>15</u>		<u>15</u>

FOURTH YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
PH401 Gen. Philosophy	3	PH402 Cont. Philosophy	3
E421 Maj. Am. Writers (Required of non- English Majors)	3	Electives	12
Electives	9		<u>15</u>
	<u>15</u>		

B.S. Curriculum

(NON-TEACHING)

FIRST YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
E101 English Comp. I	3	E102 English Comp. II	3
H101 Western Civ. I	3	H102 Western Civ. II	3
PE101 Physical Ed.	0	PE102 Physical Ed.	0
PS101 Physical Science	3	PS102 Physical Science	3
Mathematics	3	Electives	6
Elective	3		<u>15</u>
	<u>15</u>		

SECOND YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
E201 Maj. Br. Writers I	3	E202 Maj. Br. Writers II	3
H201 American Hist. I	3	H202 American Hist. II	3
Bi201 Biology I	3	Bi202 Biology II	3
PE201 Aquatics	0	Electives	6
Electives	6		<u>15</u>
	<u>15</u>		

THIRD YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
A201 Art Appreciation	3	Ms201 Music Appreciation	3
Electives	12	Electives	12
	<u>15</u>		<u>15</u>

FOURTH YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
PH401 Gen. Philosophy	3	PH402 Cont. Phil.	3
E421 Major Am. Writers	3	Electives	12
Electives	9		<u>15</u>
	<u>15</u>		





Graduate School

The Graduate School offers a full-time day program leading to the degree of Master of Education. A student is normally expected to complete the program in one year. During this year, a graduate of an approved college or university may prepare for teaching in either elementary or secondary schools. Those who have previously completed a program of teacher preparation are not eligible for admission to the day Graduate School.

In the secondary program students must elect one of the following major fields:

English	Mathematics
Foreign Language	Science
History	

Appropriate undergraduate preparation is required in the student's major field.

Further information on the Graduate School may be obtained by writing to Dr. Francis P. O'Hara, Dean of Graduate Studies.

Elementary Curriculum

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ed521 Materials and Methods	8	<i>Third Quarter</i>	
PY522 Educational Psychology	3	Ed522 Materials and Methods	2
Ed505 Research Methods	2	Ed501 Thesis	2
PH531 Philosophy I	1	Ed523 Educational Measurement	2
	<u>16</u>	E521 Children's Literature	2
		PH532 Philosophy II	2
		<i>Fourth Quarter</i>	
		Ed500 Student Teaching and Seminar	7
			<u>17</u>

Secondary Curriculum

<i>First Semester</i>	<i>Sem..Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Major Field I	3	<i>Third Quarter</i>	
Major Methods	2	Major Field II	2
Ed533 Prin. Sec. Ed.	3	Elective	2
PY501 Psychology I	3	PY502 Psychology II	2
PH531 Philosophy I	3	PH532 Philosophy II	2
Ed.505 Research	2	Ed501 Thesis	2
	<u>16</u>	<i>Fourth Quarter</i>	
		Ed530 Teaching and Seminar	7
			<u>17</u>





Program of Continuing Studies

This program admits candidates for the degree of Master of Education and also candidates with advanced standing for the degree of Bachelor of Science in Education. Classes in the Program of Continuing Studies are held in the late afternoon, in the evening and in the morning during the summer. More detailed information may be obtained by writing to Mr. Thomas F. Dungan, Director of the Program of Continuing Studies.



Departments and Courses of Instruction

Art

Vincent J. Tringale, Chairman

The courses offered by the department of art are designed to develop perception, imagination, intelligence and creativity. In order to foster these abilities and to promote a general understanding of man's aesthetic nature, a program in both the theoretical and the practical aspects of art has been provided.

DESIGN

A101

Elective for Freshmen and Sophomores. A foundation course that explores the basic principles and elements of 2-D design through problem solving and composition. Problems in space, line, form, color, texture, collages, lettering. Three hours a week. *Three semester hours.*

INTRODUCTION TO DRAWING AND PAINTING

A102

Prerequisite: A101. Figure drawing, perspective and water color are emphasized in separate units in one semester. The fostering and extension of previously developed techniques is emphasized. Three hours a week. *Three semester hours.*

INTRODUCTION TO GRAPHICS

A200

Prerequisite: A102. Open only to Juniors and Seniors. Originality and craftsmanship are encouraged in the student's preparation and repro-

duction of designs in monoprinting techniques, silk screen, linoleum and wood cuts, lithographic crayon preparation, celluloid etching, and other techniques. Three hours per week. *Three semester hours.*

ART APPRECIATION

A201

Required of Sophomores. This course introduces the student to the study of aesthetics (the philosophy of art). Analyses of important writings in aesthetics are given, and methods of analyzing works of art. Three hours per week. *Three semester hours.*

BASIC SCULPTURE

A202

Open only to Juniors and Seniors. Introduction to basic techniques of additive and subtractive sculpture. Relief as well as sculpture in the round projects will be executed. Plaster, clay, wood, and wire styro-foam are the materials to be explored. Casting in plaster will be emphasized. Three hours per week. *Three semester hours.*

INTERMEDIATE DRAWING AND PAINTING (A)

A203

Prerequisite: A102. An objective approach to the recording of nature. Still life, portrait and landscape paintings are executed in opaque and transparent paints to develop the student powers of observation. Three hours a week. *Three semester hours.*

INTERMEDIATE DRAWING AND PAINTING (B)

A204

Prerequisite: A203. A course in painting experimentation and free interpretation of the object, stressing an individual search for form and color. An individual style and personal direction is expected to be developed by the student. Three hours a week. *Three semester hours.*

ADVANCED PAINTING (A)

A301

Prerequisite: A204. A course in which the personal and individual style of the student is used to solve problems of self-expression, fortified by the knowledge of design, using mixed media, collage and paint. Three hours a week. *Three semester hours.*

ADVANCED PAINTING (B)

A302

Prerequisite: A301. This course stresses the personal painting style of the student. Individual interpretation of subject matter will be discussed and examined through critique. Three hours a week. *Three semester hours.*

THE ARTS OF THE UNITED STATES

A303

Elective for Juniors and Seniors. The course will cover painting, sculpture and architecture in America from the time of the colonies to the present. "Revival Periods" and Contemporary styles will be discussed and analyzed. Three hours a week. *Three semester hours.*

MODERN AND CONTEMPORARY ART

A304

Elective for Juniors and Seniors. The course traces the development and influence of man's activities in Europe and the Americas in the twentieth century and its effect upon painting, sculpture, and architecture, and the minor arts. Three hours a week. *Three semester hours.*

ART FOR THE KINDERGARTEN-PRIMARY LEVEL

A315

Required of Juniors who have elected the Kindergarten-Primary curriculum. A study of the foundations and current objectives of art educators and their application to the grade levels concerned within this course. Three hours a week. *Three semester hours.*

ARTS AND CRAFTS

A316

Required of Juniors who have elected the Kindergarten-Primary curriculum. A studio course designed to give a working knowledge of the basic techniques in two and three dimensional art deemed essential on the kindergarten-primary levels. Two hours a week. *One semester hour.*

ART FOR THE ELEMENTARY SCHOOL

A325

Required of Juniors who have selected the Elementary Curriculum. An introduction to various philosophies of art education, past and present.

This course is designed to acquaint future teachers with the wide scope in the various areas of child growth and development as related in their art. Three hours a week. *Three semester hours.*

ARTS AND CRAFTS

A326

Required of Juniors who have elected the Elementary Curriculum. A workshop course designed to introduce the student to the wide variety of media and materials and in the use of these in two and three dimensional art projects. Two hours a week. *One semester hour.*

SEMINAR AND PAINTING

A401

Prerequisite: A302. An advanced painting course, conducted under seminar conditions for philosophical and visual inquiry into the personal style of each student through ideas and critique. Three hours a week. *Three semester hours.*

VISUAL AESTHETICS FOR THE CLASSROOM TEACHER

A402

Open only to Juniors and Seniors. A course specifically recommended for all students who plan to teach either the elementary or secondary level. Specific projects individually programmed to both areas in order to facilitate an awareness and understanding of the aesthetic environment for learning. Three hours per week. *Three semester hours.*

ART MEDIA, PROCESS AND PRACTICE

A403

Prerequisite A101 and A102. Elective for Juniors and Seniors. In this course, opportunity is given to the student to become acquainted with media and to develop a better understanding of the objectives, principles and practices of art expression. Four hours a week. *Three semester hours.*

VOLUME DESIGN

A404

Elective for Juniors and Seniors. Prerequisite A101 and A102. A course devoted to discovering the principles of form and space in architecture,

sculpture and other three-dimensional arts. Students will work with a variety of sculptural materials including plaster, clay, wood, etc. Four hours a week. *Three semester hours.*

Biology

Dr. Rita McCauley, Chairman

The department offers both major and minor programs in biology. All Biology majors must complete Ch 101-102 and Ch 301. Two semesters of mathematics are required preferably M 109-110 or M 107-108. Two semesters of physics are recommended. While the introductory courses Bi 207-208 are set up for prospective biology majors, a student entering the program late may offer Bi 201-202 instead. All biology majors must complete Bi 207-208, Bi 402, Bi 301, Bi 306, and Bi 310. The biology major course requirements become effective in September 1969 for those completing the freshman year and entering freshmen. Unusual program situations may be adjusted with the consent of the chairman of the department.

All biology majors are required to register with the biology department so that advisors may be assigned.

A minor in biology may be developed from a combination of courses for which the student has the stated prerequisites.

FRESHMAN ORIENTATION SEMINAR

BI101

Required of all future biology majors. Current developments in biology will be discussed. An opportunity will be given to become familiar with the use of microscopes and other departmental equipment. One hour a week. No credit.

BIOLOGY I

BI201

Required. The course introduces the student to the principles and problems basic to an understanding of life processes. Lectures and discussions are planned to broaden the concepts gained from laboratory work. Four hours a week. *Three semester hours.*

BIOLOGY II

BI202

Prerequisite Bi 201. This is a continuation of Biology I emphasizing genetics, ecology and the diversity of life forms. Lectures and discussions are coordinated with laboratory work and readings. Four hours a week. *Three semester hours.*

BIOLOGY OF THE LOWER PLANTS

BI204

Prerequisites Bi 201 or Bi 207. A consideration of the structure, functioning, and life cycles of significant representatives of the algae, fungi, lichen, liverworts, mosses, and ferns. Two lectures, two hours in laboratory. *Three semester hours.*

BIOLOGY OF THE HIGHER PLANTS

BI207

Required of biology majors in place of Bi 201. This course deals with the biology of the seed-bearing plants. Particular attention will be given to the chemical processes involved in photosynthesis, respiration, and nutrition. Lectures, demonstrations, laboratory work, and readings will be used. Three lectures, two hours in laboratory. *Three semester hours.*

INVERTEBRATE ZOOLOGY

BI208

Required of biology majors in place of Bi 202. The non-chordate animals will be studied with emphasis on the reactions of the living organism. Culturing methods and care will be included. Lectures, demonstrations, laboratory investigations, and readings will be used. Three lectures, two hours in laboratory. *Four semester hours.*

VERTEBRATE MORPHOGENESIS

BI301

Required. Prerequisites Bi 201-202 or Bi 207-208. An integration of vertebrate comparative anatomy and embryology which considers mechanisms, interdependence, and the factors underlying structural transformations. Two lectures, six hours in laboratory. *Five semester hours.*

HISTOLOGY AND HISTOLOGICAL TECHNIQUES BI303

Prerequisites Bi 201-202 or Bi 207-208. A study of cells and tissues with attention given to their relation to the anatomy and physiology of the whole organism. Practice will be given in the preparation of tissues for microscopic study. Two lectures, four hours in laboratory. *Four semester hours.*

INTRODUCTION TO EXPERIMENTAL BIOLOGY BI304

Prerequisites: Bi 201-202 or Bi 207-208, Bi 204, Ch 101-102. An introduction to the particular working of the scientific mind through participation both as an individual and as a team member in work on a series of limnological investigatory units. Six hours in laboratory. *Three semester hours.*

HISTORY OF BIOLOGY BI305

A survey of the evolution of knowledge of the biotic world leading to a concept of the present state of biological science and the problems it faces. One lecture. *One semester hour.*

ECOLOGY I BI306

Required. Prerequisites: Bi 201-202 or Bi 207-208. A study of the relationships of plants and animals to their environment. Behavior, structure, adaptation, and natural selection are the central themes. Three optional field trips. Three lectures. *Three semester hours.*

ECOLOGY II BI307

Prerequisite Bi 306. Continues and presupposes Bi 306 dealing primarily with the patterns and origins of plant and animal distribution of the earth. The role of natural selection as an adaptive agent is emphasized. Three lectures. *Three semester hours.*

MARINE BIOLOGY BI308

Prerequisites: Bi 201-202 or Bi 207-208. Oceanography and Ecology are recommended. A study of the sea and organisms that live in it. Field trips and laboratory studies of marine plants, invertebrate and

vertebrate animals found in the New England seas will be a major part of the work. Two lectures, four hours in laboratory. *Four semester hours.*

CELLULAR BIOLOGY

BI401

Required. Prerequisites: Bi 201-202 or Bi 207-208; Ch 101-102, Ch 301. The components of cells, their nature, characterization and functional role. Two lectures, four hours in laboratory. *Four semester hours.*

PLANT PHYSIOLOGY

BI409

Prerequisite Bi 401. The major physiological processes of plants. Two lectures, four hours in laboratory. *Four semester hours.*

GENETICS

BI402

Required. Prerequisites Bi 201-202 or Bi 207-208. An introduction to the principles and physical basis of heredity. Laboratory experiences will include fundamental techniques used in modern genetic research. Two lectures, four hours in laboratory. *Four semester hours.*

MICROBIOLOGY

BI404

Prerequisites Bi 201-202 or Bi 207-208, Ch 101-102, Ch 301. Fundamentals of structure, growth, and habitat of the major groups of microorganisms. Laboratory experiences will give training in the basic methods of observation, propagation, and study of microorganisms. Two lectures, four hours in laboratory. *Four semester hours.*

SPECIAL PROBLEMS IN BIOLOGY

BI405

Open only to biology majors. Prerequisite Bi 304. Investigations into an open ended biological problem chosen from the student's special interests and needs. Four hours in laboratory. *Two semester hours.*

ADVANCED MICROBIOLOGY

BI407

Prerequisites: Bi 404 Microbiology. A study of the isolation and identification of microbiotic forms. Principles in immunology and

serology as related to parasitic form will be discussed. Lecture, 2 hours; Laboratory, 4 hours. *Four semester hours.*

COORDINATING SEMINAR IN BIOLOGY BI 408

Open only to senior biology majors. Reading, lectures, and discussions designed to unify and strengthen the background of students in modern biology. Two hours in class. *Two semester hours.*

PLANT PHYSIOLOGY BI409

Prerequisite Bi 401. The major physiological processes of plants. Two lectures, four hours in laboratory. *Four semester hours.*

FIELD BIOLOGY BI421

Required of all seniors in the kindergarten and elementary curricula. Elective for all others either in the senior or junior year. The course is designed to acquaint students with the plants and animals of New England and with problems of environmental conservation. Field trips. Three hours in class. *Three semester hours.*

BIOLOGICAL SCIENCE FOR SECONDARY TEACHERS BI536

Elective for graduate students who are preparing to teach science on the secondary level. The rationale of the Biological Science Curriculum Study is the basis of the course. Attention is given to the development of demonstration and laboratory techniques. Four class hours. One quarter. *Two semester hours.*

Chemistry

Dr. Francis McCarthy, Chairman

The department offers both major and minor programs in Chemistry. Programs are available for those preparing to teach Chemistry in High School, for those interested in Graduate study, and for those who seek to enter industry. A program of study in accordance with the guidelines set up by the American Chemical Society is offered for those planning Graduate study.

CONCENTRATION REQUIREMENTS

The Natural Science requirements must include, for either degree, Math 107, and Physics 101, 102. The language requirement for the A.B. in Chemistry (non-teaching) can be satisfied by German. A student, who is a candidate for either degree is strongly advised to take Chemistry 101, 102; Math 107, 108; and Physics 101, 102; in his Freshman year.

A student, who is considering Graduate Study (M.S. or Ph.D. in Chemistry) or a career in industry can best prepare himself by including Chemistry 402, 403, 405, 406, and 490. These senior courses are in accordance with the guidelines set forth by the American Chemical Society.

MINOR IN CHEMISTRY (MINIMUM REQUIREMENTS)

For a Minor in Chemistry the following courses are required: Ch 101, 102, 201 and 203, along with at least one of the following, Ch 202, 204, or 305.

STATEMENT OF PREREQUISITES

The prerequisites for each course are included in the description of the course. One or more prerequisite may be waived but only with the approval of the Curriculum Committee of the Chemistry Department.

PRINCIPLES OF CHEMISTRY

CH101-2

The principles of chemistry, atomic and molecular structure, chemical bonding and stoichiometry are emphasized. The second semester covers equilibrium theory, electrochemistry and qualitative analysis. The laboratory stresses technique experiments and laboratory safety. Three lectures and four laboratory hours a week. *Four semester hours.*

GENERAL CHEMISTRY

CH103-4

The properties of matter, the gas laws, atomic structure and periodicity will be covered in the first term. The second semester will treat the chemistry of solutions, chemical equilibrium, nuclear chemistry and an introduction to organic chemistry. Three lectures and three laboratory hours a week. *Four semester hours.*

INTRODUCTION TO CHEMISTRY

CH107-8

The course content parallels that of Ch103-4 with special emphasis on those aspects of chemistry that are useful in understanding law enforcement procedures and practices. Required of Sophomores in Law Enforcement Program. *Three semester hours.*

QUANTITATIVE ANALYSIS

CH201-2

Prerequisites: Ch101-2. Laboratory and lectures treat the areas of gravimetric analysis, acid-base titrations and the collection and evaluation of data. In the second semester complexometric, gravimetric and redox titrations are emphasized along with basic instrumental systems. Three lectures and four laboratory hours a week. *Four semester hours.*

ORGANIC CHEMISTRY

CH203-4

Prerequisites: Ch101-2. In addition to methods of nomenclature for the classes of organic compounds, a detailed treatment of structure, stereochemistry, mechanisms of reactions and synthetic procedures are discussed. The laboratory work is designed to develop proper techniques and experience in synthesis. Three lectures and four laboratory hours a week. *Four semester hours.*

CRIMINALISTICS

CH211

An introduction to the techniques of criminal investigation in the field and evaluation of the various scientific aids available for the documentation of physical evidence. Prerequisite Ch 107-8. *Three semester hours.*

PHYSICAL CHEMISTRY

CH303-4

Prerequisites: Ch201-2, Physics 101-2, Math 307. Laws and nature of gases, liquids and solids, properties of solution and thermochemistry. The second semester is a detailed study of types of equilibria, chemical kinetics and electrochemistry. Three lectures and four laboratory hours a week. *Four semester hours.*

BIOLOGICAL CHEMISTRY

CH305

Chemistry of carbohydrates, lipids, proteins and other materials of biological importance; the transport, reactions and role of these substances in the living organism are treated along with intermediary metabolism and biological oxidation. Prerequisites: Ch 201, 203. *Four semester hours.*

QUALITATIVE ORGANIC ANALYSIS

CH306

Prerequisites: Ch201-2, Ch203-4. Qualitative and quantitative analysis of selected organic compounds will be used to teach the fundamentals of research techniques in the field of organic chemistry. Two lectures and four laboratory hours a week. *Three semester hours.*

ADVANCED INORGANIC CHEMISTRY

CH401

Prerequisites: Ch303-4, or approval of the instructor. The consideration of the modern theories of atomic structure, chemical bonding, and molecular structure and their application to various topics in inorganic chemistry such as acid and base theory, ionic crystals, boron hydrides and coordination theory. Three lectures a week. *Three semester hours.*

BIOCHEMISTRY

CH402

Prerequisites: Ch203-4, Ch303-4. Protein structures and conformations, protein interactions, proteins assenzymes and: equilibria, free energy and kinetics of biological systems are considered. Three lectures a week. *Three semester hours.*

CHEMICAL INSTRUMENTATION

CH403

Prerequisites: Ch303-4, or approval of the instructor. The theory and application of modern methods of instrumentation useful in chemical analysis will be discussed. Emphasis aill be placed on electrochemical methods, spectrophotometry, chromatography and nuclear magnetic resonance. Two lectures and four laboratory hours a week. *Three semester hours.*

SENIOR RESEARCH AND HONORS

CH490

For chemistry majors. Research problems under faculty direction in-

volving literature search, laboratory work and a written account of results. Will confer honors if other requirements are also fulfilled. *Three semester hours.*

Economics

Dr. Laureat J. Bernard, Chairman

An economics major is available for all non-teaching candidates working for the B.S. or A.B. degrees. Economic majors are required to complete the following minimum courses before graduation: Ec101, Ec102, Ec206, Ec301, Ec302, and three (3) other three-hour courses acceptable for economic credits.

A minor in economics is opened to all degree candidates. A minor must complete Ec101, Ec102, and four (4) other three-hour courses accentuating economic life.

All incoming Freshmen fall under the New Curriculum standards for majors and minors. Under this plan majors in economics, either working for the B.S. or B.A., are required to complete thirty (30) hours in economics, including Ec101, Ec102, Ec206, Ec301, and Ec302. Minors must elect Ec101, Ec102, and fifteen (15) additional hours in the field. Any degree candidate may make economics a minor area of concentration.

All major and minor programs should be planned in consultation with the Department Chairman and his program assistants.

PRINCIPLES OF ECONOMICS I

EC101

An elective for Freshmen, Sophomores, Juniors and Seniors. A description and study of basic economic principles and institutions and their application to modern life and thought. Three hours a week. *Three semester hours.*

PRINCIPLES OF ECONOMICS II

EC102

An elective for Freshmen, Sophomores, Juniors and Seniors. Continues and presupposes Ec101. Three hours a week. *Three semester hours.*

FINANCIAL ACCOUNTING AND CONTROL I EC103
An elective for Freshmen, Sophomores, and Juniors. A study of the basic principles of accounting and their uses as tools for economic analysis and managerial decision making. Three hours a week. *Three semester hours.*

FINANCIAL ACCOUNTING AND CONTROL II EC104
An elective for Freshmen, Sophomores, and Juniors. Continues and presupposes EC103. Covers such topics as budget administration, cost accounting systems, full and direct costing, differential costing, income determination, and use of return on investment. Three hours a week. *Three semester hours.*

LABOR ECONOMICS EC204
An elective for Sophomores, Juniors and Seniors. Prerequisite: EC102. An analysis of manpower economics including unemployment; labor markets stressing wages and mobility; and unions with an emphasis on collective bargaining and the law. Three hours a week. *Three semester hours.*

ECONOMIC DEVELOPMENT EC205
An elective for Sophomores, Juniors and Seniors. Prerequisite: EC102. The special problems of growth in underdeveloped countries: capital requirements, institutional change, population problems, free market vs. central planning forms the core of this course. Three hours a week. *Three semester hours.*

STATISTICS AND ECONOMICS EC206
An elective for Sophomores, Juniors and Seniors. Prerequisite: EC102. May be replaced by an equivalent course in mathematics. The analysis of measures of central tendency and dispersion, sampling theory, index numbers, time series analysis, regression and correlation analysis. Three hours a week. *Three semester hours.*

MONEY, BANKING, AND CREDIT EC207
An elective for Sophomores, Juniors and Seniors. Prerequisite: EC101.

An institutional study of financial institutions and markets and their effects upon the economy. Three hours a week. *Three semeser hours.*

MONETARY THEORY AND POLICY

EC208

An elective for Sophomores, Juniors and Seniors. Prerequisite: EC207 (formerly EC203). A theoretical probe of price behaviorism and inquiry into domestic and international monetary policy problems. Three hours a week. *Three semester hours.*

INTERMEDIATE ECONOMIC THEORY I: MACROECONOMICS

EC301

An elective for Sophomores, Juniors and Seniors. Prerequisite: EC102. Analysis of income determination with emphasis on the consumption and investment functions; development of modern monetary theory, inflation theory and growth. Three hours a week. *Three semester hours.*

INTERMEDIATE ECONOMIC THEORY II: MICROECONOMICS

EC302

An elective for Sophomores, Juniors and Seniors. Prerequisite: EC102. The theory of price; analysis of role of the consumer and the firm; and pricing in the resource market. Three hours a week. *Three semester hours.*

HISTORY OF ECONOMIC THOUGHT

EC303

An elective for Juniors and Seniors. Prerequisite: EC102. The development of economic theory from Plato to modern theorists, with emphasis on the Classical Economists, Marx, and J. M. Keynes. Three hours a week. *Three semester hours.*

GOVERNMENT AND BUSINESS

EC304

An elective for Juniors and Seniors. Prerequisite: EC102. An analysis of the effect of government policies to promote competition and regulate monopoly on market performance. Three hours a week. *Three semester hours.*

INTERNATIONAL TRADE

EC305

An elective for Sophomores, Juniors and Seniors. Prerequisite: EC102. Theory of international trade, theory of factor movements, balance of payments, monetary adjustments, role of international agencies. Three hours a week. *Three semester hours.*

AMERICAN ECONOMIC HISTORY

EC306

An elective for Juniors and Seniors. An analytical study of the growth and development of the American economy from the Colonial period to the present. Three hours a week. *Three semester hours.*

CORPORATE FINANCE

EC308

An elective for Juniors and Seniors. Prerequisites: EC102 and EC104. Distribution of corporation assets; sources and costs of short- and long-term funds; relevant financial institutions. Three hours a week. *Three semester hours.*

INVESTMENT PRINCIPLES

EC309

An elective for Juniors and Seniors. Prerequisites: EC102 and EC104. Criteria for investment decision making; problems of risk, size, and timing of investment; consideration of depreciation and technological change. Three hours a week. *Three semester hours.*

PUBLIC EXPENDITURE AND FINANCE

EC310

An elective for Juniors and Seniors. Prerequisite: EC102. Study of welfare aspects of spending and taxation on all government levels; analyses of major kinds of taxes including incidence and policy implications. Three hours a week. *Three semester hours.*

COMPARATIVE ECONOMICS

EC401

An elective for Juniors and Seniors. Prerequisite: EC102. An analytical study comparing and contrasting the Common Market and mixed economics. Three hours a week. *Three semester hours.*

URBAN ECONOMIC PROBLEMS

EC402

An elective for Juniors and Seniors. Prerequisite: EC102. A study of the economic problems of the urban areas and their sociological and political implications. Three hours a week. *Three semester hours.*

BUSINESS CYCLES AND GROWTH

EC403

An elective for Juniors and Seniors. Prerequisite: EC301. An examination of the growth and fluctuations in income in advanced Western economics, with special attention to the United States since World War II. Three hours a week. *Three semester hours.*

MANAGEMENT ECONOMICS

EC404

An elective for Juniors and Seniors. Prerequisites: EC102 and EC104. The decision making process in a business enterprise, cost analysis, linear programming, and the theory of organization. Three hours a week. *Three semester hours.*

Elementary Education

Dr. Lawrence J. Newell, Chairman

The elementary and kindergarten-primary curricula have as an objective the thorough professional preparation of teachers at the levels indicated. To this end basic courses are offered and required in general and specific methods of teaching. In addition, experiences in the evaluation of learning and observation of youngsters in the classroom setting are considered essential. To these areas of preparation is added a full semester of supervised student teaching.

COMMUNICATIVE ARTS, READING

ED311

Required of Juniors who elect the Kindergarten-Primary curriculum. The course is concerned with the teaching of reading at kindergarten and primary grade levels. Three hours a week. *Three semester hours.*

COMMUNICATIVE ARTS, LANGUAGE

ED312

Required of Juniors who elect the Kindergarten-Primary curriculum. The course deals with the teaching of language arts as creative tools of communication at the kindergarten and primary grade levels. Three hours a week. *Three semester hours.*

KINDERGARTEN—PRIMARY PRINCIPLES

ED313-314

Required of Juniors who elect the Kindergarten-Primary curriculum. This course develops lesson planning, unit construction, assignments, materials and curricula of kindergarten and each of the primary grades. Three hours a week. *Three semester hours.*

COMMUNICATIVE ARTS, READING

ED321

Required of Juniors who elect the Elementary curriculum. The prime emphasis of the course will focus on the developmental nature of reading. Three hours a week. *Three semester hours.*

COMMUNICATIVE ARTS, LANGUAGE

ED322

Required of Juniors who elect the Elementary curriculum. Listening, writing and speaking as areas of communication are the main emphasis of this course. Three hours a week. *Three semester hours.*

PRINCIPLES AND CURRENT TECHNIQUES OF TEACHING

ED323

Required of Juniors who elect the Elementary curriculum. This course includes specific teaching techniques using the classroom and guiding principles for effective planning. Two hours a week. *Two semester hours.*

SOCIAL STUDIES AND SCIENCE METHODS

ED328

Required of Juniors who elect the Elementary curriculum. An examination of the methods and materials basic to carrying on a program in social studies and science in the Elementary grades. Two hours a week. *Two semester hours.*

STUDENT TEACHING AND SEMINAR ED400
Required of Seniors in Kindergarten-Primary and Elementary courses. A laboratory course of 16 weeks duration providing full-time student teaching in public schools. *Fourteen semester hours.*

EDUCATIONAL MEASUREMENTS ED422
Required of Seniors who elect the Elementary or Kindergarten-Primary programs. A survey of measurement and evaluation procedures as they apply to the day-by-day activities of the Elementary school teacher. Two hours a week. *Two semester hours.*

STUDENT TEACHING AND SEMINAR ED500
Required of Graduate students. A laboratory course of eight weeks duration providing full-time student teaching in public schools. *Seven semester hours.*

THESIS (OPTIONAL) ED501
Each graduate student is required either to write a thesis on a subject in his field, or take two courses in the same field in the following summer session of the Continuing Studies Program. *Two semester hours.*

RESEARCH AND EVALUATION ED505
A required course in the Graduate School. The course covers (1) scholarly use of libraries, (2) selection, delimitation and outlining of topics, (3) proper documentation of term papers and thesis, (4) definitions of research, (5) research methods and techniques, and (6) evaluation of research. *Two semester hours.*

ELEMENTARY SCHOOL METHODS
AND MATERIALS ED521-522
Required of Graduate students who are preparing to teach in the Elementary schools. Specific attention will be given to the construction of the curriculum and techniques of teaching common to the several subject matter areas. *Ten semester hours.*

EDUCATIONAL MEASUREMENT

ED523

A survey of the nature of measurement and evaluation in relation to the process of teaching. The course will emphasize the construction of tests, the evaluation of standardized instruments and the statistical ideas and operations needed for proper interpretation and use of tests' results. Four hours a week. *Two semester hours.*

Secondary Education

Dr. William J. Fitzpatrick, Chairman

This department offers those courses which give the student the necessary qualifications for teaching in a secondary school. Theory and practice are inter-related to provide the finest possible experience for entrance into the educational profession.

PROCEDURES FOR TEACHING IN THE SECONDARY SCHOOL

ED333

Required of Juniors in the Secondary Education curriculum. This course includes a study of the nature and the development tasks of the adolescent and the role of the teacher in establishing a favorable setting for learning. Three hours a week. *Three semester hours.*

CURRICULUM OF THE SECONDARY SCHOOL

ED334

This course is required in the Secondary Education program. Among the major topics to be covered in this course are the following: horizontal and vertical patterns of organization and criteria for curriculum evaluation. Two hours a week. *Two semester hours.*

METHODS OF TEACHING BIOLOGY IN THE SECONDARY SCHOOL

ED336-BI

Prerequisite: Ed333. Required of Juniors majoring in Biology in the Secondary School Curriculum. This course includes a consideration of the aims and principles involved in the teaching of Biology. Three hours a week. *Three semester hours.*

METHODS OF TEACHING ENGLISH IN THE
SECONDARY SCHOOL

ED336-E

Prerequisite: Ed333. Required of Juniors majoring in English in the Secondary School Curriculum. This course includes a consideration of the aims and principles involved in the teaching of grammar, composition, and literature. Three hours a week. *Three semester hours.*

METHODS OF TEACHING SOCIAL STUDIES IN THE
SECONDARY SCHOOL

ED336-H

Prerequisite: Ed333. Required of Juniors majoring in Social Studies in the Secondary School Curriculum. This course includes a consideration of the aims and principles involved in the teaching of History, Geography, Government, Economics, and Problems of Democracy. Three hours a week. *Three semester hours.*

METHODS OF TEACHING MODERN LANGUAGES
IN THE SECONDARY SCHOOL

ED336-L

Prerequisite: Ed333. Required of Juniors majoring in French or Spanish in the Secondary School Curriculum. This course includes a consideration of the principles of language learning along with the methods and materials for teaching modern languages. Three hours a week. *Three semester hours.*

METHODS OF TEACHING MATHEMATICS
IN THE SECONDARY SCHOOL

ED336-M

Prerequisite: Ed333. Required of Juniors majoring in Mathematics in the Secondary School Curriculum. This course includes a consideration of the aims and principles involved in the teaching of mathematics. Three hours a week. *Three semester hours.*

METHODS OF TEACHING SCIENCE IN THE
SECONDARY SCHOOL

ED336-PS

Prerequisite: Ed333. Required of Juniors majoring in Science in the Secondary School Curriculum. This course includes a consideration of the aims and principles involved in the teaching of astronomy,

chemistry, geology and physics. Three hours a week. *Three semester hours.*

HISTORY AND PRINCIPLES
OF SECONDARY EDUCATION

ED337

This course is required of all Juniors in the Secondary Education Program. It will examine the historical foundations of secondary education in the United States with its particular reference to early and contemporary European schools. Three hours a week. *Three semester hours.*

URBAN EDUCATION

ED338

This is an elective course for Sophomores and Juniors. There will be two hours per week of class on campus and two hours per week in practicum. The latter will consist of visits to urban schools. *Three semester hours.*

AUDIO—VISUAL MEDIA IN EDUCATION

ED339

This is an elective course. It emphasized the effective use of various audio-visual media as they influence the learning process. Three hours a week. *Three semester hours.*

DIRECTED STUDY IN THE FIELD
OF SECONDARY EDUCATION

ED340

This course is open to all students in the field of Secondary Education. Each student must submit a contract approved by the Chairman of the Department of Secondary Education prior to his registration for this course. *Three semester hours.*

IMPROVED READING SKILLS IN THE
SECONDARY SCHOOL

ED341

This is an elective course open to upperclassmen who have had a course in educational or adolescent psychology. The course is designed to acquaint secondary majors with those reading skills appropriate for success in the content areas, and to help them develop strategy for teaching such skills. Three hours a week. *Three semester hours.*

STUDENT TEACHING AND SEMINAR

ED430

Required of Seniors in the Secondary Curriculum. A laboratory course of eight weeks duration providing full-time student teaching in public secondary schools. The Seminar is concerned with fresh topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth. *Seven semester hours.*

TESTS AND MEASUREMENTS

ED431

Required of students studying secondary education. This course includes the development of measurement in education and the statistical analysis of test results. Six hours a week for one quarter. *Three semester hours.*

THESIS (OPTIONAL)

ED501

Each graduate student is required either to write a thesis on a subject in his field, or take two courses in the same field in the following summer session of the Continuing Studies Program. *Two semester hours.*

RESEARCH AND EVALUATION

ED505

A required course in the Graduate School. The course covers (1) scholarly use of libraries; (2) selection, delimitation and outlining of topics for study; (3) proper documentation of term papers and theses; (4) definitions of research; (5) research methods and techniques, and (6) evaluation of research. *Two semester hours.*

STUDENT TEACHING AND SEMINAR

ED530

Required of graduate students. A laboratory course of eight weeks duration providing full-time student teaching in public schools. *Seven semester hours.*

PRINCIPLES OF SECONDARY EDUCATION

ED533

Required of graduate students who are preparing to teach in secondary schools. Three hours a week. *Three semester hours.*

METHODS OF TEACHING ENGLISH

ED536-E

Required of graduate students who are preparing to teach English at the secondary level. This course includes a consideration of the aims and principles involved in the teaching of composition and literature and the readings of representative texts and scientific studies. Two hours a week. *Two semester hours.*

METHODS OF TEACHING FRENCH

ED536-F

Required of graduate students who are preparing to teach French in the secondary school. Two hours a week. *Two semester hours.*

METHODS OF TEACHING SPANISH

ED536-SP

Required of graduate students preparing to teach Spanish in secondary schools. Two hours a week. *Two semester hours.*

METHODS IN SOCIAL STUDIES

ED536-H

Required of graduate students who are preparing to teach social studies at the secondary level. This course includes a consideration of the aims and principles involved in teaching of social studies. Two hours a week. *Two semester hours.*

METHODS OF TEACHING SECONDARY SCHOOL MATHEMATICS

ED536-M

Required of graduate students who are preparing to teach in secondary schools. In this course instruction is given in methods of teaching mathematics in Grades VII-XII. Two hours a week. *Two semester hours.*

THE TEACHING OF GENERAL SCIENCE

ED536-PS

Required of graduate students who are preparing to teach science at the secondary school level. Representative topics to be treated include the techniques of demonstration and the selection and use of reference material and test material. Two hours a week. *Two semester hours.*

English

Richard S. Tyrell, Acting Chairman

The department of English offers to all students instruction in writing and speech, and introductory courses in British and American literature. It further offers courses in linguistics and in literature, by period or type, from Chaucer to the present day. Students majoring in English take at least twenty-four semester hours in the field exclusive of pre-requisite courses (E101-2, 103, 201-2). The following courses are required in the teacher training curriculum: E101-2, 103, 201-2, 321 (elementary division), 331-2 (English majors, secondary division), 421 (elementary division; non-English majors, secondary division), 433 (English majors). The required courses in the non-teaching curriculum are E101-2, 201-2, 331-2 (English major), 421 (non-English majors), 434 (English majors).

A student must have credit for E101-2 and 201-2 before taking courses numbered 301 and higher, with the exception of E434.

Freshmen entering the college in 1969 will follow the new curriculum.

The English Composition requirement may be satisfied by the achievement of a score of 5, 4, or 3 in the Advanced Placement Test of the CEEB. If a student attains an A in E101, he may begin the literature sequence in the second semester. Students may satisfy the Speech requirement by passing a proficiency examination during the Sophomore year.

The requirement for the A.B. or B.S. major concentration shall consist of thirty-six hours taken in the Department of English. All students majoring in English must take the two semester survey of English Literature and at least six semester hours in American Literature some time before graduation. E433 is required of English majors in the teaching curricula, E434 of those in the non-teaching curricula.

The minor concentration shall consist of twenty-one hours taken in the Department of English.

Students are urged to consult departmental advisers before determining course selection.

ENGLISH COMPOSITION

E101-102

Required of Freshmen. The course includes a review of formal grammar, training in sentence structure and paragraph development, and instruction in the writing of expository themes. Assigned readings. Three hours a week. *Three semester hours per semester.*

MAJOR BRITISH WRITERS I

E201

Required of Sophomores. A study of major works by Chaucer, Shakespeare, Donne, Milton, Pope, and Swift. Three hours a week. *Three semester hours.*

MAJOR BRITISH WRITERS II

E202

Required of Sophomores. A study of major works by Wordsworth, Keats, Tennyson, Browning, Yeats, and Eliot. Three hours a week. *Three semester hours.*

MASTERPIECES OF WESTERN LITERATURE I

E203

Readings and discussion of selected masterpieces of western literature from classical antiquity through the Renaissance. Three hours a week. *Three semester hours.*

MASTERPIECES OF WESTERN LITERATURE II

E204

A continuation of E203 involving the study of masterpieces of western literature from the Enlightenment through the twentieth century. Three hours a week. *Three semester hours.*

SHAKESPEARE I. THE TRAGEDIES

E301

Three hours a week. *Three semester hours.*

SHAKESPEARE II

E302

The comedies and history plays. Three hours a week. *Three semester hours.*

THE ROMANTIC MOVEMENT

E303

A study of the poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Three hours a week. *Three semester hours.*

FIVE POETS E304
A study of the poetic achievement of five major poets. In 1968-69 the poets studied will be Donne, Browning, Hopkins, Dickinson, and Eliot. Three hours a week. *Three semester hours.*

NINETEENTH CENTURY PROSE I E305
A study of the novels of Austen, Scott, and Dickens, and the major works of Carlyle, Macaulay, and Mill. Three hours a week. *Three semester hours.*

NINETEENTH CENTURY PROSE II E306
A study of the novels of Thackeray, George Eliot, Meredith, and Hardy, and the major prose works of Newman, Arnold, Stevenson, Ruskin, Morris, and Pater. Three hours a week. *Three semester hours.*

MODERN DRAMA I E307
A study of major modern dramatists and their work starting with Ibsen. Three hours a week. *Three semester hours.*

MODERN DRAMA II E308
A continuation of E307, with primary stress on more recent dramatists and trends in drama. E308 may be taken by students who have not taken E307, although E307 offers desirable preparation. Three hours a week. *Three semester hours.*

MILTON E310
Horton poems; *Areopagitica* and other prose works; sonnets; *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*. Three hours a week. *Three semester hours.*

ENGLISH LITERATURE, 1660-1749 E311
The major writers of the Restoration and Augustan periods, exclusive of Milton. Primary attention is paid to Dryden, Pope, and Swift. Three hours a week. *Three semester hours.*

- OLD AND MIDDLE ENGLISH LITERATURE E312
A study in translation of selected masterpieces in various genres from Anglo-Saxon times to 1500, exclusive of Chaucer. *Beowulf*, *Sir Gawain and the Green Knight*, *Piers Plowman*, Malory's *Morte d'Arthur* (in part), romances, ballads, lyric poems, plays. Three hours a week. *Three semester hours*.
- ENGLISH LITERATURE IN THE RENAISSANCE E313
A study of the major non-dramatic works of the sixteenth century with emphasis upon Spenser, Shakespeare, Donne, and Jonson. Three hours a week. *Three semester hours*.
- LITERARY CRITICISM E314
A course in criticism intended primarily for majors in English and designed to acquaint them with the vocabulary of criticism through a diagnostic and topical approach to modes (heroic, tragic, lyric) and techniques (classicism, romanticism, symbolism, myth). Three hours a week. *Three semester hours*.
- CHAUCEER I E315
A study of Chaucer's minor poetry and *Troilus and Criseyde* in the original language. Three hours a week. *Three semester hours*.
- CHAUCEER II E316
A study of *The Canterbury Tales* in the original language. Three hours a week. *Three semester hours*.
- LITERATURE FOR CHILDREN E321
Required of Juniors in the kindergarten-primary and elementary curricula. The aims of the course are to acquaint the students with the field of children's literature and to provide them with a standard of judgment for the evaluation of children's books. Two hours a week. *Two semester hours*.

ADVANCED WRITING I

E322

A course for students interested in doing considerable advance expository and creative writing. The course includes reading in contemporary and classical works. Three hours a week. *Three semester hours.*

ADVANCED WRITING II

E323

A continuation of E322, which is a prerequisite. Three hours a week. *Three semester hours.*

AMERICAN LITERATURE I

E331

Required of English majors in the Junior class. A study of American literature from Emerson to Whitman. Three hours a week. *Three semester hours.*

AMERICAN LITERATURE II

E332

A continuation in E331. A study of American literature from Mark Twain to Eliot. Three hours a week. *Three semester hours.*

THE AGE OF JOHNSON

E402

A study of major works of English literature written during the second half of the eighteenth century. Three hours a week. *Three semester hours.*

EMERSON, THOREAU, AND TRANSCENDENTALISM

E403

A study of American romantic idealists. In a broader sense, the course undertakes a study of the social and intellectual movements of the first half of the nineteenth century. Three hours a week. *Three semester hours.*

VICTORIAN POETRY

E404

A study of the poetry of Tennyson, Browning, Arnold, the Rossettis, Morris, Swinburne, Meredith, Hardy and Hopkins. Three hours a week. *Three semester hours.*

- THE MODERN NOVEL E406
 The course includes an analysis of the novel as an art form, a survey of the novel in English and American literature, and the reading of ten notable modern novels. Three hours a week. *Three semester hours.*
- MODERN SHORT STORY E407
 A study of selected American and British short stories. Three hours a week. *Three semester hours.*
- HAWTHORNE, MELVILLE, AND JAMES E408
 A course of reading and discussion of the major works of these writers. Three hours a week. *Three semester hours.*
- ENGLISH DRAMA, EXCLUSIVE OF
 SHAKESPEARE, 1580-1642 E410
 A reading of major dramas of the Elizabethan and Jacobean periods. Three hours a week. *Three semester hours.*
- ENGLISH LITERATURE. 1600-1660 E411
 The major writers of the period exclusive of the dramatists. Three hours a week. *Three semester hours.*
- RESTORATION DRAMA E412
 A reading of major dramas of the Restoration period, 1660-1700. Three hours a week. *Three semester hours.*
- CONTEMPORARY POETRY E413
 A reading of selected contemporary poets, American and British. Three hours a week. *Three semester hours.*
- MODERN IRISH WRITERS E415
 A study of the poetry, plays, and fiction of major and minor writers from Yeats to Devlin. Three hours a week. *Three semester hours.*

BLACK AMERICAN LITERATURE

E417

An historical survey of representative chronicles and essays of the nineteenth century followed by concentration on the literature of the twentieth century: poetry, novel, drama, and short story. Three hours a week. *Three semester hours.*

MAJOR AMERICAN WRITERS

E421

Required of Seniors not majoring in English. A study of major figures in American literature. Three hours a week or its equivalent. *Three semester hours.*

THE STRUCTURE OF THE ENGLISH LANGUAGE

E433

A course in the grammatical, morphological, and syntactical structure of the English language. This course is required of English majors in the teacher-training program. Three hours a week. *Three semester hours.*

THE HISTORY OF THE ENGLISH LANGUAGE

E434

A course in the historical development of the English language. Illustrative readings from its various periods. This course is required of English majors in the non-teaching curriculum; elective for others. Three hours a week. *Three semester hours.*

SPECIAL TOPICS

E490

Studies in the history of literary criticism. This course is required of candidates for honors in English. Three hours a week. *Three semester hours.*

SENIOR SEMINAR

E492

Topics in Twentieth Century American Fiction. An intensive study of selected authors and topics reflective of the contemporary scene. Reports will be given and conferences held. The consent of the instructor is required. Three hours a week. *Three semester hours.*

CONTEMPORARY BRITISH AND AMERICAN
LITERATURE I

E501

Required of graduate students majoring in English. A study of the contributions of present day writers in prose fiction and biography. Three hours a week. *Three semester hours.*

CONTEMPORARY BRITISH AND AMERICAN
LITERATURE II

E502

Required of graduate students majoring in English. A study of the contributions of present day writers in drama and poetry. Four hours a week, for one quarter. *Two semester hours.*

CHILDREN'S LITERATURE

E521

Required of graduate students in the elementary curriculum. Two hours a week. *Two semester hours.*

Speech and Communications

Courses in speech and communications are offered by the Department of English. The following courses are designed to provide students with practical training in oral and written communication. A value not only to prospective teachers but also to those whose future occupations may include writing of a commercial as distinct from literary nature.

EFFECTIVE SPEECH

E103

Required of Freshmen in all teacher preparation programs. The course has as its objective developing effective voices in the students and preparing them to meet the demands of the speech situations which they will encounter in their professional lives. Two hours a week. *Two semester hours.*

ORAL INTERPRETATION

E104

Elective for sophomores and juniors. Intensive work in the basic principles of voice and diction through exercise, tape recordings, and readings. This is essentially a study of various forms of literature to help

students learn meaningful expression of prose, poetry, and drama through oral communication. Three hours a week. *Three semester hours.*

THE WRITING LABORATORY

E210

Preparation of weekly short papers or scripts, to be read and evaluated in class. These shorter forms of writing will embrace the straight news story, the feature, the interview, the editorial, the review, a radio script and a piece of advertising copy. Three hours a week. *Three semester hours.*

Foreign Languages

Dr. Richard W. Newman, Chairman

Courses in French, German, and Spanish, offered by the Department of Foreign Languages are designed to meet the needs of three classes of students: a.) Those who wish to fulfill the foreign language requirement for the A.B. degree; b.) Those who wish to take foreign languages for general cultural purposes; and c.) Those who wish to major or minor in a foreign language. The curriculum, both for those preparing to become teachers and those intending to pursue graduate studies, is designed to give students an active command of their major language and a broad insight into the corresponding literature and culture. There are many promising careers for foreign language majors; in education, business, industry, and government. The Department also offers courses in both theoretical and applied linguistics. Theoretical linguistics is offered as a general cultural elective especially recommended to English and Foreign Language Majors and applied linguistics courses are offered in each of the major languages.

FOREIGN LANGUAGE REQUIREMENT FOR THE BACHELOR OF ARTS DEGREE

The foreign language requirement for the A.B. degree may be satisfied by successful completion of any *two* courses (6 semester hours), numbered 131 or above or by the successful completion of any *four* courses (12 semester hours) in the *same* language.

Examples of course combinations satisfying the foreign language requirement for the A.B. degree:

- (1) Sp 111-112 (Elementary Spanish) and Sp 121-122 (Intermediate Spanish); four courses, 12 semester hours.
- (2) Gr 131-32 (Advanced German); two courses, 6 semester hours.
- (3) F 121-122 (Intermediate French) and F 131-132 (Advanced French); four courses, 12 semester hours.

Scores in the appropriate achievement test of the C.E.E.B. are used for correct placement in courses and a student receiving a score of 575 or above in one of these examinations has satisfied the language requirement.

REQUIREMENTS FOR MAJORS

Majors shall complete at least 24 semester hours in the major language, beyond the Advanced level. The following courses are required for all majors:

- 211-212 Survey of Literature
- 311-312 Composition and Conversation
- 424 Spoken Language

In addition for majors in the teacher preparation curriculum the following courses are required:

- 314 Applied Linguistics
- Ed 336L Methods of Teaching Modern Languages in the Secondary School

The MLA-Cooperative Foreign Language Proficiency Tests are required of all majors and will be administered in the Department and scored professionally.

REQUIREMENTS FOR MINORS

Minors shall complete at least 18 hours beyond the Intermediate level. Course selections should be made under the guidance of the Chairman of the Foreign Languages Department and the student's Advisor in his own major department.

French

PROGRAMMED ELEMENTARY FRENCH

F110

A special course designed for Foreign Language majors who wish to begin a minor language. Open to students with permission of Department Chairman. Five hours a week. Three semester hours.

ELEMENTARY FRENCH

F111-112

Development of basic skills: aural comprehension, oral and written composition, reading ability. Language laboratory. Three hours a week. *Three semester hours.*

INTERMEDIATE FRENCH

F121-122

Prerequisite: F111-112 or two or three years of high school French. Grammar review, oral practice, extensive reading, simple written composition. Language laboratory. Three hours a week. *Three semester hours.*

ADVANCED FRENCH

F131-132

Prerequisite: F121-122 or four or five years of high school French. Constant development of aural and oral skills, intensive reading, written composition. Three hours a week. *Three semester hours.*

DEVELOPMENT OF READING SKILLS IN FRENCH

F142

Prerequisite: F131. Techniques for examining and appreciating literary texts. Three hours a week. *Three semester hours.*

SURVEY OF FRENCH LITERATURE

F211-212

Prerequisite: F131-132. Representative readings of works from the Middle Ages to the present. Lectures, discussions, readings and reports. Conducted in French. Three hours a week. *Three semester hours.*

FRENCH COMPOSITION AND CONVERSATION

F311-312

Prerequisite: F131-132. Advanced training in rapid and idiomatic French speech and writing. Three hours a week. *Three semester hours.*

FRENCH LITERATURE OF THE
SEVENTEENTH CENTURY

F321

Prerequisite: F211-212. A study of the Classical period with special emphasis given to the theater. Lectures, discussions, readings, and reports. Conducted in French. Three hours a week. *Three semester hours.*

FRENCH LITERATURE OF THE
EIGHTEENTH CENTURY

F322

Prerequisite: F211-212. A study of the Age of Enlightenment. Lectures, discussions, readings, and reports. Conducted in French. Three hours a week. *Three semester hours.*

FRENCH LITERATURE OF THE
NINETEENTH CENTURY

F331

Prerequisite: F211-212. A study of the Romantic movement with emphasis on lyric poetry and drama and of the Realist movement with emphasis on the novel. Conducted in French. Three hours a week. *Three semester hours.*

FRENCH LITERATURE OF THE
TWENTIETH CENTURY

F332

Prerequisite: F211-212. A study of the French novel and drama since World War I. Lectures, discussions, readings and reports. Conducted in French. Three hours a week. *Three semester hours.*

FRENCH LITERATURE OF THE MIDDLE AGES
AND THE RENAISSANCE

F342

Prerequisite: F211-212. A study of the *chanson de geste*, the courtly novel, the religious and secular theater of the Middle Ages and of the prose and poetry of the Renaissance. Three hours a week. *Three semester hours.*

ADVANCED FRENCH COMPOSITION AND STYLISTICS

F411

Prerequisite: F311-312. Introduction to the problems of style and a study of selected grammatical topics. Translations to and from French. Three hours a week. *Three semester hours.*

SPOKEN FRENCH

F424

Prerequisite: F311-312. Discussion and oral reports in French on topics of cultural significance and general interest. Three hours a week. *Three semester hours.*

SEMINAR IN FRENCH

F510

Required of Honors Candidates and open to others with permission of the Department Chairman. Special topics of literary research. One two-hour meeting per week. *Three semester hours.*

German

PROGRAMMED ELEMENTARY GERMAN

GR110

A special course designed for Foreign Language majors who wish to begin a minor language. Open to students with permission of Department Chairman. Five hours a week. *Three semester hours.*

ELEMENTARY GERMAN

GR111-112

Development of basic skills: aural comprehension, oral and written composition, reading ability. Language laboratory. Three hours a week. *Three semester hours.*

INTERMEDIATE GERMAN

GR121-122

Prerequisite: GR111-112 or two or three years of high school German. Grammar review, oral practice, extensive reading, simple written composition. Language laboratory. Three hours a week. *Three semester hours.*

ADVANCED GERMAN

GR131-132

Prerequisite: GR121-122 or four or five years of high school German. Constant development of aural and oral skills, intensive reading, written composition. Three hours a week. *Three semester hours.*

SURVEY OF GERMAN LITERATURE

GR211-212

Prerequisite: GR131-132. Representative readings of works from the

Middle Ages to the present. Lectures, discussions, readings and reports. Conducted in German. Three hours a week. *Three semester hours.*

GERMAN COMPOSITION AND CONVERSATION GR311-312

Prerequisite: Gr131-132. Advanced training in rapid and idiomatic German speech and writing. Three hours a week. *Three semester hours.*

GERMAN LITERATURE OF THE
EIGHTEENTH CENTURY

GR322

Prerequisite: Gr211-212. A study of the Classical period with special emphasis given to novel and drama. Lectures, discussions, readings, and reports. Conducted in German. Three hours a week. *Three semester hours.*

GERMAN LITERATURE OF THE
NINETEENTH CENTURY

GR331

Prerequisite: Gr211-212. A study of the novel, drama, lyric poetry and *novelle* of the Romantic and Realist periods. Lectures, discussions, readings, and reports. Three hours a week. *Three semester hours.*

GERMAN LITERATURE OF THE
TWENTIETH CENTURY

GR342

Prerequisite: Gr211-212. The course includes a study of the movie, drama, and lyric poetry of the contemporary period. Three hours a week. *Three semester hours.*

GERMAN CIVILIZATION

GR422

Prerequisite: Gr131-132. A study of German history, geography, social institutions and contemporary German culture. Conducted in German. Three hours a week. *Three semester hours.*

SPOKEN GERMAN

GR424

Prerequisite: Gr311-312. Discussions and oral reports in German on topics of cultural significance and general interest. Three hours a week. *Three semester hours.*

SEMINAR IN GERMAN

GR510

Required of Honors candidates and open to others with permission of the Department Chairman. Special topics of literary research. One two-hour meeting per week. *Three semester hours.*

Linguistics

INTRODUCTION TO LINGUISTICS

L111

Principles of language analysis: phonetics, phonemics, morphology, and syntax. Three hours a week. *Three semester hours.*

APPLIED LINGUISTICS: FRENCH

F314

Prerequisite: F311-312. Linguistic analysis of French phonology, morphology, and syntax and a systematic comparison of the structures of French and English. Three hours a week. *Three semester hours.*

APPLIED LINGUISTICS: GERMAN

GR314

Prerequisite: GR311-312. Linguistic analysis of German phonology, morphology, and syntax and a systematic comparison of the structures of German and English. Three hours a week. *Three semester hours.*

APPLIED LINGUISTICS: SPANISH

SP314

Prerequisite: SP311-312. Linguistic analysis of Spanish phonology, morphology, and syntax and a systematic comparison of the structures of Spanish and English. Three hours a week. *Three semester hours.*

Spanish

PROGRAMMED ELEMENTARY SPANISH

SP110

A special course designed for Foreign Language majors who wish to begin a minor language. Open to students with permission of Department Chairman. Five hours a week. *Three semester hours.*

ELEMENTARY SPANISH

SP111-112

Development of basic skills: aural comprehension, oral and written composition, reading ability. Language laboratory. Three hours a week. *Three semester hours.*

INTERMEDIATE SPANISH

SP121-122

Prerequisite: Sp111-112 or two or three years of high school Spanish. Grammar review, oral practice, extensive reading, simple written composition. Language laboratory. Three hours a week. *Three semester hours.*

ADVANCED SPANISH

SP131-132

Prerequisite: Sp121-122 or four or five years of high school Spanish. Constant development of aural and oral skills, intensive reading, written composition. Three hours a week. *Three semester hours.*

DEVELOPMENT OF READING SKILLS IN SPANISH

SP142

Prerequisite: Sp131. Techniques for examining and appreciating literary texts. Three hours a week. *Three semester hours.*

SURVEY OF SPANISH LITERATURE

SP211-212

Prerequisite: Sp131-132. Representative readings of works from the Middle Ages to the present. Lectures, discussions, readings, and reports. Three hours a week. *Three semester hours.*

SPANISH COMPOSITION AND CONVERSATION

SP311-312

Prerequisite: Sp131-132. Advanced training in rapid and idiomatic Spanish speech and writing. Three hours a week. *Three semester hours.*

SPANISH DRAMA OF THE GOLDEN AGE

SP321

Study of the precursors and major dramatists. Lectures, discussions, readings, and reports. Conducted in Spanish. Three hours a week. *Three semester hours.*

SPANISH PROSE OF THE GOLDEN AGE

SP322

Study of short story and novel with special emphasis on the Quijote. Lectures, discussions, readings, and reports. Conducted in Spanish. Three hours a week. *Three semester hours.*

SPANISH LITERATURE OF THE
NINETEENTH CENTURY

SP331

A study of the Romantic movement with emphasis on the lyric poetry and drama and of the Realist movement. Three hours a week. *Three semester hours.*

SPANISH LITERATURE OF THE
TWENTIETH CENTURY

SP332

Prerequisite: SP211-212. Study of the novel, drama, and lyric poetry from 1898 to the present. Three hours a week. *Three semester hours.*

SPANISH-AMERICAN LITERATURE

SP342

Prerequisite: SP.211-212. Representative readings from the colonial period to the present. Lectures, discussions, readings, and reports. Conducted in Spanish. Three hours a week. *Three semester hours.*

HISPANIC CIVILIZATION

SP422

Prerequisite: SP131-132. A study of Spanish history, geography, social institutions and contemporary Hispanic culture. Conducted in Spanish. Three hours a week. *Three semester hours.*

SPANISH AMERICAN CIVILIZATION

SP423

A study of the history, geography, social institutions and the contemporary culture of the Spanish-American republics. Conducted in Spanish. Three hours a week. *Three semester hours.*

SPOKEN SPANISH

SP424

Prerequisite: SP311-312. Discussion and oral reports in Spanish on topics of cultural significance and general interest. Three hours a week. *Three semester hours.*

SEMINAR IN SPANISH

SP510

Required of Honors candidates and open to others with permission of the Department Chairman. Special topics of literary research. One two-hour meeting per week. *Three semester hours.*

Teaching Methodology

METHODS OF TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOL

ED336L

See description under SECONDARY EDUCATION.

STUDENT TEACHING AND SEMINAR

ED430

See description under SECONDARY EDUCATION.

METHODOLOGY AND PRACTICE IN FLES

FL110

This course will present a general introduction to the teaching of Foreign Language in the Elementary School (FLES). Bibliography, study of second language learning, an analysis of currently-used methods of instruction, observation and practice in FLES classes. Open to students in either the Elementary or Secondary Education program who have completed 18 semester hours in a foreign language. *Three semester hours.*

METHODOLOGY AND PRACTICE IN ESOL

FL210

This course will present a general introduction to the teaching of English to Speakers of Other Languages (ESOL). Bibliography, study of second language learning, analysis of currently-used methods of instruction, observation and practice in ESOL classes. Open to students in either the Elementary or Secondary Education program who have completed at least 18 semester hours of English. *Three semester hours.*

Geography

Dr. James P. Jones, Chairman

The discipline of geography is an academic construct to bridge the natural sciences and social sciences. The causal development of the physical environment and area distribution of climate, vegetation, land forms, and natural resources is correlated with the cultural features of the landscape as instituted by man. Thus, the interrelationships that exist between man and his environment are the basic understanding which result from a study of geography.

Majors and minors in geography are required to fulfill the following minimum requirements: G301 Principles of Physical Geography, G302 Principles of Human Geography plus additional courses in geography selected from the department offerings. Course elections *must* be made with the guidance of the department chairman.

PRINCIPLES OF PHYSICAL GEOGRAPHY

G301

The purpose of this course is to develop an awareness, understanding, and appreciation of the elements of man's natural environment. The utilization of the tools of geography will be stressed throughout the course. *Three semester hours.*

PRINCIPLES OF HUMAN GEOGRAPHY

G302

The purpose of this course is to develop an understanding of the relationships that exist between the natural and the cultural environments and the resultant effect upon man's activities. *Three semester hours.*

REGIONAL GEOGRAPHY OF ANGLO—AMERICA

G303

This course is a regional study of the physical, cultural, political, and economic environment of the peoples of Anglo-America. The study will stress relationships that exist between these regions and other important world areas. *Three semester hours.*

REGIONAL GEOGRAPHY OF LATIN AMERICA

G304

A regional study of Middle America and South America. Emphasis is upon the physical environment and the cultural, economic, and political conditions that exist and are in the process of development. *Three semester hours.*

REGIONAL GEOGRAPHY OF EUROPE

G305

The physical, cultural, political, and economic features of the European subcontinent are described in the first part of this course. Regional similarities and differences and Europe's place in the modern world will be analyzed in the latter part. *Three semester hours.*

GEOGRAPHY OF THE MIDDLE EAST

AND NORTHERN AFRICA

G308

This course will consider the cultural and physical characteristics of those countries extending from Mauritania-Morocco to Afghanistan. Emphasis will be placed on the historical development and Arabization of the region, strategic significance, and current socio-economic problems. *Three semester hours.*

BIOGEOGRAPHY

G309

An ecological perspective of the environmental relationships of living organisms: their origin, distribution, evolution, adaption and association. *Three semester hours.*

GEOGRAPHY OF UNDERDEVELOPED NATIONS

G310

This course will classify and evaluate the physical and cultural resource potential of the world's under-developed nations. *Three semester hours.*

REGIONAL GEOGRAPHY OF SOUTH

AND EAST ASIA

G311

This course provides a survey of the physical, cultural, and economic origins of Asia. This background is then utilized to provide an understanding of the major social, economic and political problems facing this continent. *Three semester hours.*

POLITICAL GEOGRAPHY

G401

The influence of the geographic factors—physical and cultural—upon the development of states and their external relations. The geographic basis of power, internal and international tensions, and major writings in the field will be considered. *Three semester hours.*

WORLD ECONOMIC GEOGRAPHY

G402

The relationships that exist between the physical environment and human activities. The geography of commerce, industry, agriculture, natural resources, and conservation will be presented by utilizing selected regions for study. *Three semester hours.*

URBAN GEOGRAPHY G403
A study of the influence of geographic factors in urban areas and distribution of economic activities within the urban complex. Problems of suburban growth and development, metropolitan problems and planning will also be discussed. *Three semester hours.*

SEMINAR IN GEOGRAPHY G404
A study of the philosophy and development of geographic thought and methodology. *Three semester hours.*

CARTOGRAPHY G405
The art and science of the presentation of earth patterns in the mediums of maps, models, cartograms and other cartographic devices. Laboratory exercises introducing basic projections, symbolism, handling of cartographic tools, lettering techniques, and fine drawing. *Three semester hours.*

WEATHER AND CLIMATE G406
The elements of weather, temperature, pressure, and moisture will be studied in detail. Correct usage of weather equipment is involved in the course. After the study of weather, the knowledge is applied to climates of the world. *Three semester hours.*

REGIONAL PLANNING AND DEVELOPMENT G410
This course will examine the geographical theories and problems involved in the spatial development of a region. *Three semester hours.*

SPECIAL TOPICS IN GEOGRAPHY G490
A course stressing research topics within the discipline of geography. *Three semester hours.*

SEMINAR IN METROPOLITAN STUDIES I G492
The objectives of this course will be to define, evaluate, and analyze, by an in-depth study problem areas within the Metropolitan Community. Utilization of the Metropolitan Studies Program Staff will

provide an interdisciplinary approach to selected problem areas; community leaders will serve as guest lecturers. *Three semester hours.*

SEMINAR IN METROPOLITAN STUDIES II

G493

A continuation of G492 Seminars in Metropolitan Studies I. Research papers pertaining to the student's area of interest, pertinent to selected problem areas, will be written under the direction of staff members in the Metropolitan Studies Program. Research papers will be presented and defended before the seminar students and faculty. *Three semester hours.*

PRINCIPLES OF ECONOMIC GEOGRAPHY

G532

Consideration of the basic physical and cultural factors affecting the socio-economic development of countries. *Two semester hours.*

METHODS OF TEACHING GEOGRAPHY AND EARTH SCIENCE IN THE SECONDARY SCHOOLS

ED336-GE

Prerequisite: Ed333. This course is to be required of all Secondary Education students majoring in Geography and Earth-Science in the junior year. Emphasis will be placed upon ESCP and Project Geography Materials and Methods as well as innovations and recent developments. *Three semester hours.*

Geology

A degree in earth science provides a basic program of studies allowing students to prepare for teaching careers while still being flexible enough to allow for graduate school acceptance in a variety of disciplines.

A major in earth science may be obtained by fulfilling the following requirements. GL 101, 102, GL 201, 202, P301, 302, or CH 101, 102, P 306, and G406 or GL301. A minor may be obtained by selecting 18 hours within the required program.

For students wishing to prepare for graduate school programs it is strongly recommended that the following courses be taken. GL 303, M402, M107, 108.

PHYSICAL GEOLOGY

GL101

Introduction to the study of the earth, its composition, development, and destruction in relation to natural processes. Laboratory work includes investigation of rocks and minerals, geologic and topographic map analysis. *Three semester hours.*

HISTORICAL GEOLOGY

GL102

Historical development of continents and ocean basins, development of life, classification of fossil animal and plants. *Three semester hours.*

GEOMORPHOLOGY

GL301

Prerequisite: GL 101, 102 or consent of instructor. An in depth study will be made of the surface features of the earth. Structural and dynamic Geology, climate regimes, and ocean influence will be discussed with emphasis placed on the New England geomorphology. *Three semester hours.*

GEOLOGY OF NORTH AMERICA

GL303

A general survey of each province of North America, including the geomorphology, structure, and human environment of each region. Prerequisites GL 101, GL301, or consent of the instructor. *Three semester hours.*

OCEANOGRAPHY I

GL201

Oceanography is a correlation of the geographical, geological, physical, chemical, and biological aspects of the sea. This course explores the historical, geological and physical aspects. *Three semester hours.*

OCEANOGRAPHY II

GL202

The biological, geographical, and recreational aspects of the sea will be explored. The fertile areas of the sea, favorable conditions for life in the sea, plankton invertebrate life, life on the bottom fishes, mammals, the economic importance of the fishing industry to Massachusetts, the recreational facilities, and the future uses of the sea will be discussed. *Three semester hours.*

Law Enforcement

INTRODUCTION TO LAW ENFORCEMENT

LE101

This course is designed to acquaint the student with the historical and philosophical background to law enforcement in the United States, the various agencies established to regulate criminal and non-criminal activities of the citizens, and recent trends. *Three semester hours.*

History

Dr. Lauréat J. Bernard, Chairman

The department of History offers programs of major concentrations for Secondary Education and for the A.B. and B.S. degrees in History. History majors, candidates for the B.S. and the B.S. in education above the freshmen level, *are encouraged* to elect G301 (Physical Geography) and G302 (Human Geography); while candidates for the A.B. and A.B. in education *are encouraged* to elect Ec101 and Ec102 (the introductory course in Economics. It should be noted, moreover, that Ec306 (American Economic History) may be counted as history credits.

The major in history above the freshman level in the fall of 1969 is required to complete a minimum of twenty-four (24) *elective hours* in history. Included in this requirement for graduation are the following courses: H208 or H209; H301 or H302; H304; and H407 or H408. All majors who intend to go on to graduate school are strongly urged to achieve a balance between the American and European fields. Furthermore, all major programs should be planned in consultation with the Department Chairman and his program assistants.

Minor programs for minors in history above the freshman level as of the fall of 1969 must include H208 or H209; H301; and H407 or H408 in their program before graduation. Minor candidates are also advised to spread their remaining nine (9) elective hours as broadly as possible within their range of choice.

All incoming freshmen who plan to major or minor in history will do so under the new requirements approved for majors or minors according to New Curriculum standards. This means that such history

majors are required to select H101-H102 (or one of its equivalent pairs: H103-H104 or H105-H106): H201-H202; plus 24 elective hours in history. A course in the appropriate historiography division is, moreover, a strong recommendation for those planning to do graduate work in history. Minors are required H101-H102 (or its equivalents); H201-H202; and any nine (9) elective hours in history.

The department of History participates in the Honors Program; and recommends to those properly certified, membership in the national historical honor society of Phi Alpha Theta—Mu Iota Chapter.

WESTERN CIVILIZATION I

H101

Required of Freshmen entering without a European history course background. An intensive survey of Western Culture from the fall of Rome through the reign of Louis XIV. Three hours a week. *Three semester hours.*

WESTERN CIVILIZATION II

H102

Required of Freshmen who elected H101. Stress given to the major movements of Western Culture from the Enlightenment to the present. Three hours a week. *Three semester hours.*

HISTORY OF IDEAS I

H103

A substitute for H101; opened to Freshmen with a European history background. An analysis of several major works which have helped to shape the mind of the West before 1550. Three hours a week. *Three semester hours.*

HISTORY OF IDEAS II

H104

Required of Freshmen who selected H103. Main concentration to involve the reading of several major works which have helped to develop the mind of the West since 1550. Three hours a week. *Three semester hours.*

WORLD HISTORY I

H105

Required of Freshmen who do not select H101 or H103. Emphasis is

upon the major events and movements which occurred in Africa, Asia, and Europe before 1500. Three hours a week. *Three semester hours.*

WORLD HISTORY II

H106

Required of Freshmen who elected H105. A broad study of the leading developments in Africa, Asia, and Europe since 1500. Three hours a week. *Three semester hours.*

AMERICAN HISTORY TO 1877

H201

Required of Sophomores. A survey of United States history from 1763 to 1877, emphasizing political customs and institutions. Three hours a week. *Three semester hours.*

AMERICAN HISTORY FROM 1877

H202

Required of Sophomores. A probe into the political, economic, and social development from 1877 to the present, emphasizing the rise of the United States to a world power status. Three hours a week. *Three semester hours.*

HISTORY OF ENGLAND TO 1689

H203

An elective for Sophomores, Juniors, and Seniors. Covers the Anglo-Saxon period to 1689, and stresses the growth of common law and the emergence of Parliament. Three hours a week. *Three semester hours.*

HISTORY OF ENGLAND FROM 1689

H204

An elective for Sophomores, Juniors, and Seniors. The evolution of English life from 1689 to 1914. Three hours a week. *Three semester hours.*

HISTORY OF LATIN AMERICA TO 1825

H205

An elective for Sophomores, Juniors, and Seniors. Main focus on the aboriginal American and Spanish background, the conquest and development of colonial Spanish America, with emphasis on social and intellectual growth. Three hours a week. *Three semester hours.*

HISTORY OF LATIN AMERICA SINCE 1689 H206

An elective for Sophomores, Juniors, and Seniors. A study of the social, intellectual, and political developments which shaped present-day Latin America. Three hours a week. *Three semester hours.*

AMERICAN COLONIAL HISTORY H207

An elective for Sophomores, Juniors, and Seniors. The interrelationships between Europe and British North America from discovery to 1763, and the development of the early American economy, society, and institutions. Three hours a week. *Three semester hours.*

AMERICAN REVOLUTION AND CONSTITUTION H208

An elective for Sophomores, Juniors, and Seniors. Analyzing the break-up of the British colonial system, this course describes the Revolution and the creation of a new nation and federal government. Three hours a week. *Three semester hours.*

THE FEDERALIST ERA: 1790-1815 H209

An elective for Sophomores, Juniors, and Seniors. Centers about the formative years under the United States Constitution, with emphasis of policies encouraged by Hamilton and the early political parties of the Federalists and the Republicans. Three hours a week. *Three semester hours.*

THE RENAISSANCE AND THE REFORMATION H210

An elective for Sophomores, Juniors, and Seniors. Elaborates on the political, literary, and artistic phases of the Renaissance and examines the religious aspects of the Reformation. Three hours a week. *Three semester hours.*

THE EIGHTEENTH CENTURY H211

An elective for Sophomores, Juniors, and Seniors. A survey of the rivalries and intellectual achievements of the leading European powers during the "Age of Enlightened Despotism." Three hours a week. *Three semester hours.*

THE FRENCH REVOLUTION AND NAPOLEON

H212

An elective for Sophomores, Juniors, and Seniors. Analysis of the principles, causes, and phases of the French Revolution: and the resulting era of the Directory and Napoleonic rule. Three hours a week. *Three semester hours.*

THE SEVENTEENTH CENTURY

H213

An elective for Sophomores, Juniors, and Seniors. Covers the period from the decline of Spain through the "Golden Age" of Louis XIV. Special attention to the scientific and political revolutions which developed, and the cultural achievements. Three hours a week. *Three semester hours.*

HISTORY OF MODERN GERMANY

H214

An elective for Sophomores, Juniors, and Seniors. An in-depth study of major events and developments in Germany from 1815 to the present. Three hours a week. *Three semester hours.*

THE EARLY MIDDLE AGES

H215

An elective for Freshmen, Sophomores, Juniors, and Seniors. A study of the social, cultural, and political history of the Mediterranean world and northern Europe, Third to Eleventh centuries. Three hours a week. *Three semester hours.*

THE HIGH MIDDLE AGES

H216

An elective for Freshmen, Sophomores, Juniors, and Seniors. A probe into the social, cultural, and political developments that constituted Western Europe's medieval civilization and laid the foundation for Modern Europe: c. 1000-1450. Three hours a week. *Three semester hours.*

FRANCE SINCE 1815

H217

An elective for Sophomores, Juniors, and Seniors. France from the post-Napoleonic period to 1940, with emphasis upon the various

regimes of the Nineteenth Century and the rise and fall of the Third Republic. Three hours a week. *Three semester hours.*

HISTORY OF EASTERN EUROPE SINCE 1815 H218

An elective for Sophomores, Juniors, and Seniors. This course will concentrate on the political, social, and economic developments in the Austro-Hungarian Empire and the Balkans. Three hours a week. *Three semester hours.*

THE NEGRO IN AMERICAN HISTORY H219

An elective for Sophomores, Juniors, and Seniors. The role of Afro-Americans in the development of American life from 1619 to the present. Three hours a week. *Three semester hours.*

HISTORIOGRAPHY H220a

An elective for Juniors and Seniors. Besides elaborating on historical research and methodology, this course analyzes the works of past and present American historians. Three hours a week. *Three semester hours.*

HISTORIOGRAPHY H220e

An elective for Juniors and Seniors. Besides elaborating on historical research and methodology, this course deals with the works of ancient and modern European historians. Three hours a week. *Three semester hours.*

EUROPE IN THE NINETEENTH CENTURY H301

An elective for Sophomores, Juniors, and Seniors. An introduction to the economic, social, and political forces vital to this century, with careful elaboration of the national histories prominent then. Three hours a week. *Three semester hours.*

EUROPE IN THE TWENTIETH CENTURY H302

An elective for Sophomores, Juniors, and Seniors. An analysis of the political, social, economic, and cultural aspects of Twentieth-Century Europe. Three hours a week. *Three semester hours.*

POPULISM AND THE PROGRESSIVE ERA H303
An elective for Juniors and Seniors. An intensive probe into the development of the American Commonwealth from 1877 to 1920. Three hours a week. *Three semester hours.*

UNITED STATES IN THE TWENTIETH CENTURY H304
An elective for Juniors and Seniors. A description and analysis of major events and trends in American History since World War I. Political, cultural, and diplomatic themes will be emphasized. Three hours a week. *Three semester hours.*

HISTORY OF EARLY RUSSIA H305
An elective for Juniors and Seniors. Russian history from the Kievan and Mongolian periods through the Appanage Age and the rise of Imperial Czardom. Three hours a week. *Three semester hours.*

HISTORY OF MODERN RUSSIA H306
An elective for Juniors and Seniors. An intensive study of the social problems and external expansion of Nineteenth-Century Russia are viewed as a prelude to the revolutions of the present century. Three hours a week. *Three semester hours.*

HISTORY OF GREECE H307
An elective for Freshmen, Sophomores, and Juniors. This course covers the history of Greece from the Twelfth Century B.C. to the Roman occupation. Three hours a week. *Three semester hours.*

HISTORY OF ROME H308
An elective for Freshmen, Sophomores, and Juniors. Analysis of events and developments from 500 B.C. to A.D. 476. Three hours a week. *Three semester hours.*

NATIONALISM AND SECTIONALISM
IN AMERICA: 1816-1850 H309
An elective for Juniors and Seniors. A study of the significant trends facing young America from the War of 1812 to the eve of the Civil

War, with emphasis on the domestic scene. Three hours a week. *Three semester hours.*

CIVIL WAR AND RECONSTRUCTION: 1853-1877 H310

An elective for Juniors and Seniors. The great upheaval in mid-century America: causes, the agony of war, and the legacy of division between sections and races. Three hours a week. *Three semester hours.*

THE WESTWARD MOVEMENT: 1763-1890 H312

An elective for Juniors and Seniors. The growth and development of the West, and the influence of the frontier on the political, cultural, and economic life. Three hours a week. *Three semester hours.*

HISTORY OF THE OLD SOUTH H313

An elective for Sophomores, Juniors, and Seniors. Analysis of the characteristics of a distinctive Southern society, its politics, economy, and culture, from settlement to secession. Three hours a week. *Three semester hours.*

HISTORY OF AMERICA TO 1850 H314

An elective for Sophomores, Juniors, and Seniors. The early history and culture of Africa and the impact of Islamic, Arabic, and early European penetration to 1850. Three hours a week. *Three semester hours.*

MODERN EUROPEAN IMPERIALISM H315

An elective for Juniors and Seniors. The motives and methods of European Imperialism, and selected resistance movements in Africa and India: 1850 to 1950. Three hours a week. *Three semester hours.*

HISTORY OF THE NEW SOUTH H316

An elective for Juniors and Seniors. Covers the nature of Southern society, problems, and behavior; and its history from Reconstruction to the present, stressing Southern alienation from and reintegration into American society. Three hours a week. *Three semester hours.*

HISTORY OF CANADA

H317

An elective for Sophomores, Juniors, and Seniors. Presents the political, social, economic, and cultural factors from early French and colonial settlements to the present. Three hours a week. *Three semester hours.*

HISTORY OF THE AMERICAN CITY

H318

An elective for Juniors and Seniors. A history of American cities from colonial times to the present, with elaboration upon recent achievements and needs. Three hours a week. *Three semester hours.*

HISTORY OF THE MODERN NEAR EAST

H319

An elective for Juniors and Seniors. A survey running from 1815 to the present, with deeper analyses of nationalistic movements to the Eastern Mediterranean, and the diplomacy of the Near East since World War II. Three hours a week. *Three semester hours.*

EUROPEAN INTELLECTUAL HISTORY: 1600-1815

H401

An elective for Juniors and Seniors. A study of the scientific, political, and ideological beliefs of the Seventeenth and Eighteenth centuries, with particular consideration to the seminal minds and their ideas. Three hours a week. *Three semester hours.*

EUROPEAN INTELLECTUAL HISTORY SINCE 1815

H402

An elective for Juniors and Seniors. Among the topics evaluated are romanticism, conservatism, liberal democracy, socialism, Marxism, Darwinism, Irrationalism, Freudianism, Existentialism, Totalitarianism, and the dilemmas of contemporary Europe. Three hours a week. *Three semester hours.*

SOCIAL AND CULTURAL HISTORY OF THE

UNITED STATES TO 1870

H405

An elective for Juniors and Seniors. The development of American thought and society with emphasis on the impact of Puritanism, Individualism, and Transcendentalism on the American scene. Three hours a week. *Three semester hours.*

SOCIAL AND CULTURAL HISTORY OF THE
UNITED STATES SINCE 1870

H406

An elective for Juniors and Seniors. A study of the transition of the United States to an urban, industrialized society, and the effect on the social, cultural, and intellectual life of the people. Three hours a week. *Three semester hours.*

THE CONTEMPORARY FAR EAST

H407

An elective for Juniors and Seniors. This course will focus on the transformation of China and Japan since 1800, and their impact upon Korea and Southeast Asiatic areas. Three hours a week. *Three semester hours.*

EARLY EAST ASIAN CIVILIZATION

H408

An elective for Juniors and Seniors. Historical probes into the social, cultural, political, and economic institutions of Traditional China and Japan; and concurrent developments in Korea and Southeast Asia. Three hours a week. *Three semester hours.*

HISTORY OF CONTEMPORARY EUROPE SINCE 1939

H410

An elective for Juniors and Seniors. The current national developments in Western Europe will be exposed after a brief analysis of World War II. Special attention to be given to the social, economic, and cultural trends of recent origin. Three hours a week. *Three semester hours.*

SEMINAR IN SELECTED TOPICS

H490

Required of all honors' candidates during the second semester of the Junior year. Opened to others with permission of the Department Chairman. This course deals with the writing of history and methods of historical research. Three hours a week. *Three semester hours.*

DIPLOMATIC HISTORY OF THE
UNITED STATES I

H501

Required of graduate students majoring in history. Undergraduates admitted with permission of the Department Chairman. Analyzes the

main forces that have shaped the early development of American foreign policy from 1777 to 1898. Three hours a week. *Three semester hours.*

DIPLOMATIC HISTORY OF THE UNITED STATES II

H502

Required of graduate students majoring in History. Opened only to those who took H501 in the undergraduate division (these will receive three semester hours credit and attend classes throughout the fourth quarter). Four hours a week, third quarter. *Two or three semester hours.*

HISTORY OF ENGLAND FROM 1485

H531

Required of graduate students majoring in English. A survey of English history starting with the Tudor Renaissance, with special emphasis placed on political and social growth as it applied to English literature. Four hours a week, third quarter. *Two semester hours.*

Mathematics

Dr. William E. Perrault, Chairman

The department of mathematics offers programs of study leading to the degrees A.B., B.S., A.B. in Secondary Education, B.S. in Secondary Education, and M.Ed. The training offered contributes to the preparation of students for a wide variety of careers including the professions of Secondary-school mathematics teaching, actuarial mathematics, computer science, creative research, and industrial technology.

To aid in describing the requirements for a major or minor in mathematics, the set of course numbers has been partitioned into six groups which are listed following the next few paragraphs.

To graduate as a mathematics major a student must accumulate a minimum of 36 hours in mathematics to be distributed as follows: all 15 hours of Group I, 9 hours of Group II at most 3 of which may be in geometry, 12 hours of Group III not completed in Group II. Every

Mathematics major ideally should have an advisor throughout his college career. In any case, upon completing Group I a student should:

- a) preferably not have earned a grade of less than 2 in M207 and
- b) have his mathematics program reviewed by the department.

To graduate as a mathematics minor a student must accumulate 21 hours in mathematics by choosing courses from Groups I through IV. However, an elementary major desiring a minor in mathematics may elect courses from Group V as well.

Students whose curricula emphasize theory, applications, or teaching may graduate with honors by presenting in M490 a paper representing independent work in a topic not covered in formal course work. If the student gives three typed copies of this paper by May 1 to the chairman of the mathematics honors program committee and if his work is approved by his advisor and the chairman of the committee, then the department shows its recognition of such extra work by bestowing a diploma and the student is mentioned as graduating with honors at graduation exercises.

Prospective actuarial candidates for the life insurance industry are advised to take the following courses: M312, M402, M403, M404, and M405.

Prospective elementary school teachers who have completed four years of college preparatory mathematics in high school may satisfy the Level II requirements proposed by the Committee on the Undergraduate Program in Mathematics (CUPM) by taking the following courses: M103, M107-M108 (or M109-M110), M306, M307, and M406. Level II is related to mathematics specialists in the upper elementary schools.

The mathematics courses are grouped (with the letter M omitted) as follows:

Group I: 103, 107, 108, 207

Group II: 306, 307, 308, 406, 407

Group III: 111, 306, 307, 308, 309, 310, 311, 312, 335, 401, 402, 403, 404, 405, 407, 409, 410, 411, 412, 413, 415, 416, 440, 441, 490.

Group IV: 102, 109, 110

Group V: 224, 225, 226, 227

Group VI: 101, 305, 316, 326

FUNDAMENTAL PRINCIPLES OF MATHEMATICS I M101

This course is offered for non-mathematics and non-science majors. It includes: an historical development, mathematical reasoning, numbers, algebra, Euclidean geometry, basic trigonometry, coordinate geometry, applications to science, non-Euclidean geometries, and other arithmetics and algebras. Three hours a week. *Three semester hours.*

FUNDAMENTAL PRINCIPLES OF MATHEMATICS II M102

This course is offered for non-mathematics and non-science majors. The course includes sets, logic, number systems, functions, limits, and elementary calculus. Three hours a week. *Three semester hours.*

AN INTRODUCTION TO MODERN MATHEMATICS M103

This course includes sets, logic, special functions, and polynomials. Three hours a week. *Three semester hours.*

CALCULUS I M107

Prerequisite: M103. This course covers limits, continuity, differentiation, and applications of the derivative. Four hours a week. *Four semester hours.*

CALCULUS II M108

Prerequisite: M107. This course covers area and the basics of the integral, reviews analytic geometry, and finishes with the calculus of transcendent and trigonometric functions. Four hours a week. *Four semester hours.*

MATHEMATICAL ANALYSIS I M109

This course serves as an introduction to the basic ideas of calculus and probability theory with emphasis on understanding mathematical concepts and applications of them. Three hours a week. *Three semester hours.*

MATHEMATICAL ANALYSIS II

M110

Prerequisite: M109. This course includes the definite integral, fundamental theorem of calculus, methods of integration, applications, continuous and discrete probability. Three hours a week. *Three semester hours.*

INTRODUCTION TO COMPUTER SCIENCE

M111

This course is designed to acquaint the student with the scope and power of a high speed digital computer and with the techniques by which its potential can be realized. Three hours a week. *Two semester hours.*

CALCULUS III

M207

Prerequisite: M108. This course studies methods of integration, a few applications of the integral, polar coordinates, parameters, L'Hospital's rule, sequences, series, partial differentiation and multiple integrals. Four hours a week. *Four semester hours.*

THE STRUCTURE OF NUMBER SYSTEMS I

M224

Elective for students in the Elementary curricula. This course includes logic, elementary set theory, numeration, and the construction and properties of whole numbers. Three hours a week. *Three semester hours.*

THE STRUCTURE OF NUMBER SYSTEMS II

M225

Prerequisite: M224. This course includes an analysis of the construction of rational numbers and real numbers. Elementary number theory and modular number systems are included. Three hours a week. *Three semester hours.*

INTUITIVE GEOMETRY

M226

Elective for students in the Elementary curricula. This course includes the study of space, planes, lines, and figures as sets of points with their properties developed intuitively. Coordinate geometry and the basic concepts of measurement are also included. Three hours a week. *Three semester hours.*

ELEMENTS OF ALGEBRA

M227

Prerequisite: M305 or M225. Elective for students in the Elementary curricula. This course is concerned with the basic ideas and structure of algebra and incorporates some experimental work to accomplish this end. Three hours a week. *Three semester hours.*

BASIC MODERN MATHEMATICS

M305

Required for juniors electing the Elementary or Kindergarten-Primary curricula unless M224 is taken. This course includes: numeration systems, set operations, arithmetic algorithms, fractions, percent, simple informal geometry and trigonometry. Three hours a week. *Three semester hours.*

FUNDAMENTAL CONCEPTS OF GEOMETRY

M306

Prerequisite: M107. This course is a study in depth of the foundations of that geometry customarily offered in high schools. In particular, it treats the basic properties of absolute, Euclidean, and hyperbolic geometries. Three hours a week. *Three semester hours.*

PROBABILITY

M307

Prerequisite: M108. The course includes properties of the probability set function, conditional probability, independence, stochastic processes, distributions and expectations of random variables, and limiting distributions. Three hours a week. *Three semester hours.*

HIGHER GEOMETRIES

M308

Prerequisite: M107. This course is a study of the properties of projective geometries and subgeometries. The course is developed using synthetic methods and expanded through analytic techniques. Three hours a week. *Three semester hours.*

HISTORY OF MATHEMATICS

M309

Prerequisite: M107. This course surveys the history of elementary mathematics, through calculus, from ancient times to the present. Em-

phasis is on the major developments in the fields of arithmetic, algebra, and geometry, and on contributions of noteworthy mathematicians and epochs. Three hours a week. *Three semester hours.*

INTRODUCTION TO NUMBER THEORY

M310

Prerequisite: M107. This course includes elementary properties of integers, the Euclidean algorithm, divisibility, congruences and diophantine equations, and number-theoretic functions. Three hours a week. *Three semester hours.*

SET THEORY AND LOGIC

M311

Prerequisite: M108. This course studies set theory and logic in depth. Three hours a week. *Three semester hours.*

NUMERICAL ANALYSIS

M312

Prerequisite: M108. This course includes finding roots of functions, numerical differentiation, numerical integration, and numerical solutions of ordinary differential equations. Three hours a week. *Three semester hours.*

METHODS OF TEACHING MATHEMATICS IN THE KINDERGARTEN-PRIMARY SCHOOL

M316

Prerequisite: M305 or M224. Required of juniors in the Kindergarten-Primary curricula. This course considers the research, methods, and materials of instruction appropriate to the teaching of mathematics in grades kindergarten through three. Two hours a week. *Two semester hours.*

METHODS OF TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL

M326

Prerequisite: M305 or M224. Required of juniors in the Elementary curricula. This course considers the research, methods, and materials of instruction appropriate to the teaching of mathematics in grades one through six. Two hours a week. *Two semester hours.*

MATHEMATICS FOR SECONDARY
SCHOOL TEACHERS

M335

This course concentrates on those aspects of mathematics that are fundamental to a basic understanding and effective teaching of secondary school mathematics. Three hours a week. *Three semester hours.*

MATHEMATICAL DISCOVERY

M401

Prerequisite: M108. This course analyzes generally the ways and means of discovery of problem solutions and also aims at improvement in the teaching of problem solving. Three hours a week. *Three semester hours.*

MATHEMATICAL STATISTICS I

M402

Prerequisite: M307. This course is a broad introduction to classical large-sample methods. Topics covered are probability, frequency distributions, sampling theory, hypothesis testing and estimation, correlation and regression. Three hours a week. *Three semester hours.*

MATHEMATICAL STATISTICS II

M403

Prerequisite: M402. This course includes limiting distributions, small sample distributions, distribution-free statistical inference, statistical hypotheses, analysis of variance, and multi-variate distributions. Three hours a week. *Three semester hours.*

MATHEMATICS OF FINANCE

M404

Prerequisite: M107. This course considers the application of algebra to interest, annuities, bonds, investments and life insurance. Three hours a week. *Three semester hours.*

MATHEMATICS OF LIFE INSURANCE

M405

Prerequisite: M404. This course includes mathematical theory of life contingencies, mortality tables, annuities, net premiums, reserves, non-forfeiture benefits, and gross premiums. Three hours a week. *Three semester hours.*

ABSTRACT ALGEBRA I

M406

Prerequisite: M107. This course introduces algebraic structures, em-

phasizing groups, rings, domains, and fields. Three hours a week.
Three semester hours.

ABSTRACT ALGEBRA II M407

Prerequisite: M406. This course continues M406, emphasizing vector spaces, linear transformations, and matrices. Three hours a week.
Three semester hours.

DIFFERENTIAL EQUATIONS I M409

Prerequisite: M108. This course familiarizes the student with first and second order differential equations, linear differential equation with constant coefficients, singular solutions, and physical applications. Three hours a week. *Three semester hours.*

TOPOLOGY M410

Prerequisite: M411. This course gears point-set topology to the undergraduate including such topics as topologies, continuity, connectivity, compactness, separation axioms, and metric spaces. Three hours a week.
Three semester hours.

REAL ANALYSIS I M411

Prerequisite: M207. This course includes relations, functions, sequences, series, elements of metric topology, and the properties of monotone and continuous real-valued functions of a real variable. Three hours a week. *Three semester hours.*

REAL ANALYSIS II M412

Prerequisite: M411. This course includes the Riemann and Riemann-Stieltjes integrals, elements of measure theory, and the Lebesgue integral. Three hours a week. *Three semester hours.*

INTRODUCTION TO MATHEMATICAL PHYSICS M413

Prerequisite: M409. This course introduces curvilinear coordinates by means of tensors of second rank, transformations, vector and scalar fields, while making use of several advanced mathematical techniques

that could be applied in Physics. Three hours a week. *Three semester hours.*

COMPLEX ANALYSIS

M415

Prerequisite: M411. This course includes complex numbers, holomorphic functions, contour integrals, and complex series. Three hours a week. *Three semester hours.*

ADVANCED CALCULUS I

M416

Prerequisite: M207, M409. This course familiarizes the student with functions of several variables, inverse and implicit functions, curves and surfaces, line and surface integrals, orthogonal functions, and Fourier analysis. Three hours a week. *Three semester hours.*

TOPICS IN ABSTRACT MATHEMATICS

M440

Prerequisite: M207. This course provides an opportunity to remedy deficiencies in the students theoretical background and is preparation via independent study for M490. Three hours a week. *Three semester hours.*

TOPICS IN APPLIED MATHEMATICS

M441

Prerequisite: M207. This course gives the opportunity to study applications of mathematics not available in other courses and is preparation via independent study for M490. Three hours a week. *Three semester hours.*

SPECIAL TOPICS IN MATHEMATICS

M490

Prerequisite: M440, M441 or permission of the Mathematics Honors Committee. Required for Seniors in the Honors Program. This course requires each student to do independent work in a topic not covered in formal course work. Three hours a week. *Three semester hours.*

FUNDAMENTAL CONCEPTS OF GEOMETRY

M501

Prerequisite: M407. Elective for Graduate students. This course is a detailed study of the projective group and its principal subgroups

(affine, Euclidean, hyperbolic, elliptic) from an algebraic standpoint. Three hours a week. *Three semester hours.*

PROBABILITY AND STATISTICAL INFERENCE M504

Prerequisite: M411. Elective for Graduate students. The course concerns itself with the foundations of probability from a measure theoretical standpoint. Also included are elements of decision and game theory. Four hours a week, third quarter. *Two semester hours.*

A SURVEY OF ALGEBRA AND NUMBER THEORY M542

Elective for Graduate students. The course includes sets, formal properties and construction of number systems, groups, rings, fields and vector spaces. Four hours a week, third quarter. *Two semester hours.*

METHODS OF TEACHING MATHEMATICS

IN THE SECONDARY SCHOOL

ED336M

Prerequisite: Ed333. This course develops the essentials and refinements of lesson planning and effective teaching of secondary school mathematics through classroom experiences at the laboratory school and related seminar sessions. Four hours a week. *Three semester hours.*

STUDENT TEACHING AND SEMINAR

ED430

Prerequisite: Ed336M. This is a laboratory course of 8 weeks duration providing full-time student teaching experiences in public secondary schools under the guidance of a regular classroom cooperating teacher. *Seven semester hours.*

Music

Dr. Elizabeth A. O'Brien, Chairman

The program in Music is designed to develop the student's aesthetic nature through a program of theoretical and listening courses which are open to all students. Two courses are required for education majors, Ms411 for those preparing to teach at the Kindergarten—Primary level or Ms 422 for those preparing to teach at the elementary level.

Participation in musical organizations, the chorus and the band, is open to all students in the college.

MUSIC IA MS101
Elective. No prerequisite. Fundamentals of music theory; analysis; ear training and sight singing; and vocal music. Three hours a week. *Three semester hours.*

MUSIC IB MS102
Elective. Prerequisite: MS101. A continuation of Music IA. Three hours a week. *Three semester hours.*

APPRECIATION OF MUSIC MS201
No prerequisite. Open to all students. An introduction to music literature. Representative works will be heard in class. Three hours a week. *Three semester hours.*

MUSIC IIA MS203
Elective. Prerequisite: MS102. More advanced work in harmony, analysis, ear training and sight singing, and choral singing. Three hours a week. *Three semester hours.*

MUSIC IIB MS204
Elective. Prerequisite: MS203. A continuation of Music IIA. Three hours a week. *Three semester hours.*

BASIC STUDIES IN MUSIC MS205
Open to all students. No prerequisite. Selected works will be heard and analyzed from various approaches. Three hours a week. *Three semester hours.*

MUSIC IIIA MS301
Elective. Prerequisite: MS203-204. More advanced work in harmony, analysis, ear training and sight singing, and choral singing. Three hours a week. *Three semester hours.*

MUSIC IIIB

MS302

Elective. Prerequisite: MS301. A continuation of Music IIIB.

MASTERPIECES OF MUSIC

MS333

Prerequisite: MS201 or MS205. Recognized musical masterworks from the Renaissance to the Modern Period will be studied through listening. Three hours a week. *Three semester hours.*

OPERA

MS334

Prerequisite: MS201 or MS205. A survey of opera from the time of the Camerata to the present. Three hours a week. *Three semester hours.*

AMERICAN MUSIC

MS335

Prerequisite: MS201 or MS205. Developments in the history of American Music from the time of the New England hymnodists to the present, including jazz and show music. Three hours a week. *Three semester hours.*

MUSIC OF THE BAROQUE PERIOD

MS337

Prerequisite: MS201 or MS205. The styles, forms and techniques of the period from 1600 to 1750. Three hours a week. *Three semester hours.*

MUSIC OF THE TWENTIETH CENTURY

MS340

Prerequisite: MS201 or MS205. Trends in contemporary music and their relationship to social and political trends in this century. Three hours a week. *Three semester hours.*

RUSSIAN MUSIC

MS341

Prerequisite: MS201 or MS205. Music from the time of Catherine the Great to the present will be studied. Three hours a week. *Three semester hours.*

MUSIC IV

MS402

Elective. Prerequisite: MS302. Advanced work in the use of harmonic materials. Three hours a week. *Three semester hours.*

MUSIC, KINDERGARTEN-PRIMARY

MS411

Required of Seniors who have elected the Kindergarten-Primary Curriculum. A study of materials and methods suitable for use at this level. Three hours a week. *Three semester hours.*

MUSIC, ELEMENTARY SCHOOL

MS422

Required of Seniors who have elected the Elementary Curriculum. A study of materials and methods suitable for use in the elementary grades. Three hours a week. *Three semester hours.*

Philosophy

John J. O'Neill, Chairman

The Department of Philosophy offers both courses for liberal education and an elective sequence leading to a major or a minor in philosophy. Students who wish to concentrate in Philosophy should elect PH101—Problems of Philosophy—in the Freshman year. Major or minor study requires PH101 or PH401 and PH201, 202, 203, 402.

Major study requires 24 semester hours for present major students. Major students entering in September, 1969 will complete 30 semester hours, and minor students 18 semester hours.

PROBLEMS OF PHILOSOPHY

PH101

Elective for Freshmen and Sophomores in non-teaching programs. An introductory course. The aim of this course is to acquaint the student with the philosophic method, the problems and issues of philosophy, and the great philosophers. Three hours a week. *Three semester hours.*

PHILOSOPHY OF MAN

PH102

Elective for Freshmen and Sophomores. Man is studied as a rational social being with supremacy of intellect and the anarchy of feeling. Modern images of man and the traditional great philosophies of life will be studied. Three hours a week. *Three semester hours.*

HISTORY OF PHILOSOPHY I

PH201

Elective for Sophomores, Juniors, and Seniors. This course concentrates on selected philosophers from the Pre-Socratics through the Middle Ages. Three hours a week. *Three semester hours.*

HISTORY OF PHILOSOPHY II

PH202

Elective for Sophomores, Juniors, and Seniors. Prerequisite: 201. It begins with the Renaissance-Humanistic philosophers, continues with the scientific thinkers and the near modern philosophers. Three hours a week. *Three semester hours.*

LOGIC

PH203

Elective for Sophomores, Juniors, and Seniors. This course studies principles of Rhetoric and Logic. Three hours a week. *Three semester hours.*

SYMBOLIC LOGIC

PH210

Prerequisite: Ph203. Elective for Sophomores, Juniors and Seniors. This course examines the logic of sentences, axiomatic systems, natural deduction and problems dealing with logical systems. Offered every other year. Three hours a week. *Three semester hours.*

ETHICS

PH301

Elective for Sophomores, Juniors, and Seniors. This course studies the historical development of ethics from the ancient Greek, Roman, and Medieval, to Modern periods including Positivism, Marxism, and Existentialism. Three hours a week. *Three semester hours.*

AESTHETICS

PH302

Elective for Sophomores, Juniors, and Seniors. Aesthetic experience will be studied, also the nature, purpose, and value of the various conceptions of art, leading to a deeper appreciation of its nature. Three hours a week. *Three semester hours.*

SOCIAL PHILOSOPHY

PH303

Elective for Sophomores, Juniors, and Seniors. Study of the different

conceptions of man, of values, and of social processes, leading to a systematic philosophy of man and the state. Evaluation of fundamental theories. Three hours a week. *Three semester hours.*

AMERICAN PHILOSOPHY

PH304

Elective for Sophomores, Juniors, and Seniors. Development of American philosophy through reading and discussion of representative selections. Emphasis is placed on Peirce, James, Royce, Whitehead, Santayana, Dewey. Three hours a week. *Three semester hours.*

EPISTEMOLOGY

PH310

Prerequisite: Six hours in Philosophy. Elective for Sophomores, Juniors and Seniors. This course examines the nature of perception and cognition, the relation of thinking to experience and the nature and limits of knowledge. Three hours a week. *Three semester hours.*

CONTEMPORARY ETHICAL THEORY

PH312

Prerequisite: Ph302. Elective for Sophomores, Juniors and Seniors. An examination of some of the main movements in ethics in the twentieth century including intuitionism, emotivism, prescriptivism, pragmatism and existentialism. Offered every other year. Three hours a week. *Three semester hours.*

GENERAL PHILOSOPHY

PH401

Required of Seniors not completing Ph101. The aim of this course is to acquaint the student with the philosophic method, the problems of philosophy, and the great philosophers. Three hours a week. *Three semester hours.*

CONTEMPORARY PHILOSOPHY

PH402

Required of A.B. and B.S. Degree candidates. This course studies the main lines of modern thought. Special attention will be given to the twentieth century philosophers—the Age of Analysis. Three hours a week. (Ph401 or 101 Prerequisite). *Three semester hours.*

SEMINAR IN PHILOSOPHY

PH404

Elective for Seniors in A.B and B.S. Non-teaching curriculum completing PH401 or PH101. One or two selected topics will be treated in depth. Topics will vary from semester to semester. Three hours a week. *Three semester hours.*

HONORS SEMINAR IN PHILOSOPHY

PH490

Required for honors candidates. Second semester Juniors or first semester Seniors. The study area will be determined by the students in consultation with the department chairman and faculty member involved in directing the required honors paper. Three hours a week. *Three semester hours credit.*

PHILOSOPHICAL FOUNDATIONS OF EDUCATION—PART I

PH531

Required of graduate students. This course is an historical approach to the study of educational thought and includes an examination of primary educational concepts which have evolved through western thought to the present day. Three hours a week. *Three semester hours.*

PHILOSOPHICAL FOUNDATIONS OF EDUCATION—PART II

PH532

Required of graduate students. This course makes application of the philosophical bases of education to recurrent and contemporary educational issues and problems. Four hours a week, one quarter. *Two semester hours.*

Physical Education for Women

Marie I. Farrell, Chairman

Department offerings are in the disciplines of HEALTH, PHYSICAL EDUCATION and RECREATION.

In addition to the courses designed to meet the college curriculum requirement, elective courses and the opportunity to minor in Physical Education are provided.

Candidates for a minor in Physical Education must take Principles and Philosophy of Physical Education (PE103W), Personal skills in Individual and Team Sports (PE 304W), Health Science (Hl 102W), and First Aid (FA302W).

It is recommended that all minors elect Anatomy, Biology, and Physiology for their science requirements.

Non-Kindergarten-Primary-Elementary majors should elect Physical Education Methods (PE301W) and Health Science (Hl102W).

The general College requirement of Physical Education consists of four semesters of Physical Education. One semester of the four required must be Aquatics. Students who demonstrate a proficiency in the Aquatics test administered by the department are excused from this semester requirement.

Semester requirements in Physical Education may be met by participation in regular Physical Education classes or in specific Physical Education varsity, intramural, or club activities. No course in Physical Education may be repeated, but an advanced course in the same activity may be elected.

PHYSICAL EDUCATION ACTIVITIES PE101W, 102W, 202W

Three semesters of Physical Education are required of all semester I and II students. A wide variety of dance activities and individual and team sports offerings permit a wide selection of choice. However, each student must elect one rhythmical activity. Two hours a week. *No credit.*

AQUATICS PE201W

One semester of Aquatics is required of all students in addition to PE101, 102, and 202W. A student in semester I or II who demonstrates proficiency in the Aquatics test administered by the department may be excused from this semester of activity. One hour a week. *No credit.*

PERSONAL SKILLS IN INDIVIDUAL AND TEAM SPORTS PE103W

Required of minors in Physical Education. Emphasis is placed on

the development of personal skills in selected activities. Four hours a week. *Three semester hours.*

RECREATION AND LEADERSHIP

PE203W

Course to acquaint prospective community recreation leaders, camp counselors and playground leaders with the need for and the values of recreation in our society. Three hours a week. *Three semester hours.*

ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION

PE204W

Prerequisite: PE203W. The historical, philosophical and theoretical background of recreation, play and leisure through classroom lectures, planning of community recreation programs and leadership experiences. Three hours a week. *Three semester hours.*

PHYSICAL EDUCATION AND RECREATION FOR THE MENTALLY RETARDED

PE205

The characteristics, potentials and limitations of the mentally retarded in physical education and recreation. The student is provided with an understanding of the philosophy, objectives, and guiding principles in programming for the mentally retarded. Three hours a week. *Three semester hours.*

PHYSICAL EDUCATION AND RECREATION FOR THE MENTALLY RETARDED

PE206

Prerequisite: PE205W. Practicum and Seminar. An in-depth study of the problems of the mentally retarded child as he is influenced by physical education and recreational activities. Two class hours a week and 30 hours of field work. *Three semester hours.*

PHYSICAL EDUCATION

PE301W

Required of Junior women in Kindergarten and Elementary curriculum. Emphasis is on the current materials and techniques used for the

teaching of Physical Education in Kindergarten through Grade 6. Recommend any minor elect this course if she is not a Kindergarten, Primary or Elementary major. Two hours a week. *One semester hour.*

PRINCIPLES AND PHILOSOPHY OF
PHYSICAL EDUCATION

PE304W

Required for minors. The course is designed to develop the students' awareness and understanding of the role of Physical Education in the modern world. Elective for women. Three hours a week. *Three semester hours.*

CURRENT PROBLEMS IN HEALTH AND
PHYSICAL EDUCATION

PE306W

A topical approach to today's problems in health and physical education through the use of current literature. Elective for women. Three hours a week. *Three semester hours.*

COACHING TEAM SPORTS

PE401W

Elective for women. The philosophy, standards, techniques, and strategy of coaching competitive girls' and women's teams in basketball, softball, volleyball, field hockey, soccer and speedball. Three hours a week. *Three semester hours.*

OFFICIATING GIRLS' AND WOMEN'S SPORTS

PE402W

Elective for women. The ethics, knowledge and techniques of officiating girls' and women's sports are stressed. The sports included are basketball, volleyball, softball, field hockey and track and field. Three hours a week. *Three semester hours.*

WORKSHOP

PE403W

Elective for women. An interdisciplinary approach to the understanding of the interrelationships that exist between the natural environment and man is provided through classroom lectures, field trips and a four day outdoor education experience at a campsite. *Five semester hours.*

HEALTH SCIENCE

HL102W

Elective for all students. Required for minors and anyone in Education curricula above semester II. Scientific information and development of health practices contributing to effective living. Current topic areas dealing with narcotics, alcohol and diseases are stressed. Three hours a week. *Three semester hours.*

HEALTH PROBLEMS IN THE CLASSROOM

HL103W

Elective for women. Health problems occurring in school-age children which adversely affect learning will be presented. Emphasis will be placed upon the role of the teacher in recognizing and dealing with these problems. Three hours a week. *Three semester hours.*

FIRST AID

FA302W

Required for Junior women in Education Curricula. This course fulfills the requirements of the Standard and Advanced Red Cross First Aid Courses. Two hours a week. *One semester hour.*

Physical Education for Men

James P. Sullivan, Chairman

A program of major concentration in physical education is offered, culminating in a B.S. in Ed. degree.

Physical education courses required for the degree are: Physical Education Activities: (5 courses) First Aid and Training; History and Principles of Physical Education; Anatomy; Physiology; Kinesiology; Elementary Swimming; Advanced Swimming; Tests and Measurements; Administration of Health; Physical Education; and Athletics; Methods of Physical Education; Physical Education for the Atypical; Coaching Electives (3).

A service program for the non physical education major is required. It consists of 3 semesters of physical education activity classes and one semester of swimming. This is a degree requirement.

FRESHMAN YEAR ACTIVITIES

PE101-102M

Required of all men students. This course is designed to improve or maintain the physical fitness of the students through vigorous exercise. Emphasis is placed on team games and activities with a "carry-over" value. Instruction is given in softball, tag football, basketball, track, volleyball, badminton, golf, squash, weight training, tumbling, boxing, wrestling and gymnastics. Two hours a week. *No credit.*

AQUATICS

PE201M

Required of all Sophomore men. Non-swimmers are taught the elementary strokes. Swimmers' techniques are improved, and their physical condition strengthened. Emphasis is placed on water safety. Two hours a week. *No credit.*

RECREATION—A MODERN CONCEPT

PE203M

This course is designed to give the student a general overview of the part recreation plays in a modern society. The topics to be covered include an introduction to community recreation, school recreation, national voluntary youth organizations, professional opportunities and recreation program areas. Three hours a week. *Three semester hours.*

FIRST AID AND TRAINING

PE211M

Nature and causes of injuries in the field of athletics. The common hazards of play, and preventive measures for athletes from the junior high school level to the college level are discussed. First aid principles, rehabilitation and strapping are presented. *Two semester hours.*

PHYSICAL EDUCATION

PE301M

Required of all Junior men who have elected the Elementary curriculum. This course will include a study of the aims and objectives of physical education at the elementary school level. The students will become acquainted with the methods and materials used in teaching physical education. Two hours a week. *One semester hour.*

HISTORY AND PRINCIPLES OF
PHYSICAL EDUCATION

PE304M

This course covers the history of physical education and recreation from primitive times to the present, incorporating the culture of the world societies. Also examines the implications of the leading philosophies of education for the field of physical education. *Three semester hours.*

PHYSIOLOGY OF EXERCISE

PE311M

This course will deal primarily with man's organic structure and its function during muscular activity. This course will include a laboratory period. *Three semester hours.*

KINESIOLOGY

PE312M

This course will deal primarily with body movement in terms of leverage and proprioception. *Three semester hours.*

METHODS OF TEACHING PHYSICAL EDUCATION

ED336PE

A study of appropriate activities for elementary, junior and senior high school students. Also included will be instruction in the proper methods of organizing and conducting the physical education program. *Three semester hours.*

PHYSICAL EDUCATION ACTIVITIES

PE121M

A skills class which will develop the motor ability and knowledge of the student with regard to the various physical education activities and sports. Required of majors for five semesters. *One semester hour.*

PSYCHOLOGY OF COACHING

PE314M

This course will provide the student with a knowledge of proven coaching methods and acquaint him with the problems to be expected in the handling of large groups in a competitive environment. *Two semester hours.*

HEALTH SCIENCE

HL102M

This course emphasizes knowledge of the physiology of the body. Stress is placed on scientific information and the development of health practices which contribute to effective living. *Three semester hours.*

Physics

Dr. Francis W. McCarthy, Chairman

The department offers majors in Physics and the Natural Sciences. A.B. and B.S. majors in Physics are required to take the following courses: P101-102; P201-202; P204; P401-402; P407-408; and P409-410. They must complete courses in Mathematics through Mathematical Physics and Chemistry 101-102. Candidates for A.B. (with teacher preparation) and B.S. in Education majors in Natural Science are required to take Ch101-102; P101-1-2; or P301-302; P306; Gl101; Bi201-202 and P406. A minor in Physics may be obtained by taking P101-102; P201 and two courses from the Advanced Physics list. A minor in Natural Sciences may be obtained by taking Ch101-102; P101-102 or P301-302; and Bi201-202.

For those students interested in teaching Physics, programs can be arranged with the department chairman.

PHYSICAL SCIENCE I

PS101

An introductory course for non-science majors, in which selected topics in physics are considered. Three hours a week. *Three semester hours.*

PHYSICAL SCIENCE II

PS102

An introductory course for non-science majors in which selected topics in chemistry are considered. Three hours a week. *Three semester hours.*

COLLEGE PHYSICS—MECHANICS

P101

Prerequisite: M103 (May be taken concurrently) An intensive study is made of the kinematics and dynamics of point masses and rigid

bodies. Three lectures and two hours of laboratory a week. *Four semester hours.*

COLLEGE PHYSICS II

P102

Required of all physics majors. Prerequisite: M107. (May be taken concurrently) A study of electricity and magnetism will be made. Three lectures and two hours of laboratory a week. *Four semester hours.*

COLLEGE PHYSICS III

P201

Prerequisite: P102. Introduction to modern (non-classical) physics and relativity with emphasis on atomic theory. Three lectures and one laboratory hour a week. *Four semester hours.*

ELECTROMAGNETIC THEORY

P202

Prerequisites: P101, 102; M107, 108 or permission of instructor. Maxwell's equations will be developed and the mathematics of waves will be discussed. Three lectures a week. *Three semester hours.*

STATISTICAL PHYSICS

P204

This course attempts to connect microscopic properties of particles, governed by atomic physics, to the macroscopic behavior of physical systems using a statistical approach. Students should be familiar with classical mechanics and with the ideas of atomic physics. Four lectures a week. *Four semester hours.*

GENERAL COLLEGE PHYSICS I

P301

An introduction to kinematics and dynamics. The material is presented without the use of calculus and is intended for those not majoring in physics. Two lectures, one laboratory hour a week. *Three semester hours.*

GENERAL COLLEGE PHYSICS II

P302

Continuation of P301. Course presents fundamentals of electromagnetic theory and elementary atomic physics. Three lectures, one laboratory hour a week. *Four semester hours.*

ASTRONOMY

P306

Prerequisite: one year of college mathematics. A study of the major features of the solar system, and an introduction to stellar astronomy. Required of all students majoring in Natural Sciences, and an elective of all other science majors and mathematics. Three meetings a week. *Three semester hours.*

MODERN PHYSICS I

P401

The theory of special relativity. Space, time, four-dimensional model, interaction of atomic particles. Protons. Three meetings a week. *Three semester hours.*

MODERN PHYSICS II

P402

The quantum theory. Wave properties of particles. Uncertainty relations. Complementarity. Shroedinger's equations and applications to atoms and molecules. Three meetings a week. *Three semester hours.*

ELECTRONICS

P403

Prerequisite: M207. (May be taken concurrently) Vacuum tube and transistor theory is studied in detail and their application to power supply and amplifier circuits investigated. Three hours of lecture and two hours of laboratory a week. *Four semester hours.*

HISTORY AND PHILOSOPHY OF SCIENCE

P406

Required of all students who are candidates for a major in Natural Sciences. Elective for those who have taken PS101-102 or equivalent. The course traces the development of scientific ideas from antiquity to the present. Three hours a week. *Three semester hours.*

ADVANCED LAB I & II

P407-408

Prerequisites: P101-102; (P201 may be taken concurrently) A modern laboratory course designed to acquaint the student with the spirit and methods of experimental research in Physics. Three hours a week. *Three semester hours.*

THEORETICAL PHYSICS I

P409

Prerequisite: Mathematical Physics. Required of all physics majors. Elective for those who have the prerequisites in Mathematics. The dynamics of particles, rigid bodies and elastic media will be examined by Newtonian, LaGrangian and Hamiltonian methods. Three lectures a week. *Three semester hours.*

THEORETICAL PHYSICS II

P410

Prerequisite: Mathematical Physics. In this part of the course Maxwell's equations and electromagnetic theory will be studied. Three lectures a week. *Three semester hours.*

HONOR SEMINAR

P490

For students with some background in physics. Supervised study according to the needs and interests of the individual student. Number of meetings varies. *Two semester hours.*

ASTRONOMY

PS531

A course in descriptive astronomy, required of graduate students who are majoring in the teaching of secondary school science. Three hours a week. *Three semester hours.*

HISTORY AND PHILOSOPHY OF SCIENCE

PS532

Required of graduate students who are majoring in the teaching of science in the secondary school. Four hours a week, third quarter. *Two semester hours.*

Political Science

Dr. Lauréat J. Bernard, Chairman

A major in Political Science is opened to all interested candidates for the A.B. or B.S. degrees. A B.S. or B.A. in education candidate may major in political science provided he/she minors in history. A major

is required to complete the following before graduation: Gv101, Gv102, Gv201, Gv202, Gv301, and three (3) other three-hour courses in the field. All major programs should be planned in consultation with the Department Chairman or the Assistant Chairman.

A minor is available for all degree candidates. The minor must include the five required courses listed for a major above, and one other three-hour course in government.

All incoming Freshmen as of the fall of 1969 come under the new departmental standards of the New Curriculum. A major under the New Curriculum is required to complete thirty (30) hours in political science before graduation of which Gv101, Gv102, Gv201, Gv202, and Gv301 are required; and the minor must select the five (5) required courses listed for a major and two (2) three-hour courses in government.

The Political Science division participates in the Honors Program via the facilities set up by the History Department.

AMERICAN GOVERNMENT

GV101

An elective for Freshmen and Sophomores. An analysis of the executive, legislative, and judicial branches of the National Government, with particular attention to the Constitution, federalism, political parties, and economic and welfare activities. Three hours a week. *Three semester hours.*

COMPARATIVE GOVERNMENT

GV102

An elective for Freshmen and Sophomores. A comparative study of the governments of Great Britain, Italy, France, Germany, and Soviet Russia. Three hours a week. *Three semester hours.*

POLITICAL THEORY I

GV201

An elective for Sophomores and Juniors. Covers the major political doctrines held by theorists from Plato to Hobbes. Special attention given to placing each theorist in the proper cultural context. Three hours a week. *Three semester hours.*

POLITICAL THEORY II

GV202

An elective for Sophomores and Juniors. Continuation of Gv201 emphasizing the political theorists from Hobbes through Lenin, with particular stress on the liberal democrats, the socialists, and totalitarian philosophers. Three hours a week. *Three semester hours.*

POLITICS OF MODERN AFRICA

GV203

An elective for Sophomores, Juniors, and Seniors. A survey of representative African government types, with particular stress on socio-political change, nationalism, duality, nation-building, and Pan-Africanism. Three hours a week. *Three semester hours.*

EDUCATION FOR CITIZENSHIP

GV204

An elective for Sophomores and Juniors. An examination of the nature of democratic citizenship, and the processes through which one participates in the political culture. Three hours a week. *Three semester hours.*

INTERNATIONAL RELATIONS

GV301

An elective for Juniors and Seniors. An analysis of the tangible and intangible elements of national power, the concepts of national interest and the balance of power, and the foreign policies of selected states.

MASSACHUSETTS GOVERNMENT

GV302

An elective for Juniors and Seniors. A study of state, county, municipal, and town governments in Massachusetts. Three hours a week. *Three semester hours.*

AMERICAN CONSTITUTIONAL PROBLEMS AND LAW

GV303

An elective for Juniors and Seniors. Traces American constitutional development, and stresses the role of the Supreme Court, the separation of powers, federalism, and individual rights. Three hours a week. *Three semester hours.*

- POLITICAL PARTIES AND INTEREST GROUPS GV304
An elective for Juniors and Seniors. The coalition nature of major political parties, their ideology and structure, the role of third parties, political behavior, and pressure groups form the core of this course. Three hours a week. *Three semester hours.*
- INTRODUCTION TO LAW GV305
An elective for Juniors and Seniors. A study of the general principles of statutory and common law. Three hours a week. *Three semester hours.*
- COMMERCIAL LAW GV306
An elective for Juniors and Seniors. An analysis of the elementary organization and functioning of business enterprises. Three hours a week. *Three semester hours.*
- INTERNATIONAL ORGANIZATION GV307
An elective for Juniors and Seniors. The evolution of international organization, the Hague system, the League of Nations, the United Nations, and Supranational groups form the major strand of this course. Three hours a week. *Three semester hours.*
- AMERICAN FOREIGN POLICY GV308
An elective for Juniors and Seniors. A probe designed to give a comprehensive understanding of the conduct of American Foreign Policy since 1950, with emphasis on economic, diplomatic, and cultural aspects. Three hours a week. *Three semester hours.*
- COMMUNIST BEHAVIOR IN WORLD AFFAIRS GV309
An elective for Juniors and Seniors. An overview of relations between selected members of the Socialist world: Asian, Latin American, East and West European, and Near Eastern states. Three hours a week. *Three semester hours.*
- URBAN GOVERNMENT GV310
An elective for Juniors and Seniors. An analysis of the politics of

minorities in Urban America with stress on urban renewal, suburbia, metropolitan government, pollution, transportation, and the role of the police. Three hours a week. *Three semester hours.*

THE UNITED STATES CONGRESS

GV311

An elective for Sophomores, Juniors, and Seniors. To be covered: the mode of election, the seniority system, the committees, the rules and work-load, and differences between the House and Senate. Three hours a week. *Three semester hours.*

THE PRESIDENCY

GV312

An elective for Sophomores, Juniors, and Seniors. Central to this course are the President's role, the tremendous powers held, the advisors necessary for decision-making, and the difficulties of achieving the consensus. Three hours a week. *Three semester hours.*

POLITICS OF DEVELOPING AREAS

GV313

An elective for Juniors and Seniors. Study of social mobilization and political modernization in selected developing countries of the Near East, Asia, Latin America, and Africa, with special emphasis on political elites, ideologies, and economic development. Three hours a week. *Three semester hours.*

CONTEMPORARY POLITICAL THEORIES

GV314

An elective for Juniors and Seniors. An examination of significant political theories in the Twentieth Century. Particular stress given to problems of political obligation. Three hours a week. *Three semester hours.*

GOVERNMENTS AND POLITICS OF THE FAR EAST

GV315

An elective for Juniors and Seniors. Study of government, parties, and ideologies in the selected countries of the Far East. Emphasis on international relations and foreign policies. Three hours a week. *Three semester hours.*

PUBLIC ADMINISTRATION

GV316

An elective for Juniors and Seniors. Survey of public administration in the United States. Emphasis on bureaucracy, policy-making administrative power, budgetary process, civil service, and control of administration. Three hours a week. *Three semester hours.*

PUBLIC OPINION AND PROPAGANDA

GV317

An elective for Juniors and Seniors. The relationship between public opinion and mass democracy, the news media and public opinion will be analyzed in terms of their political effects, as will democratic and totalitarian propaganda. Three hours a week. *Three semester hours.*

GOVERNMENT AND POLITICS IN THE NEAR EAST

GV318

An elective for Juniors and Seniors. Internal developments in Near Eastern countries as well as the tensions between Israel and the Arab states will be scrutinized. The role of the major powers in the area will be probed. Three hours a week. *Three semester hours.*

CIVIL LIBERTIES

GV319

An elective for Juniors and Seniors. The basic principles of constitutional liberties in the United States will be linked to recent and current topics. Three hours a week. *Three semester hours.*

SOVIET FOREIGN POLICY

GV320

An elective for Juniors and Seniors. Emphasis is on the behavioral trends in Soviet Foreign Policy since 1917, with particular attention to policy-making, relationships with socialist bloc countries and western and non-aligned nations. Three hours a week. *Three semester hours.*

GOVERNMENT AND POLITICS OF EASTERN EUROPE

GV321

An elective for Juniors and Seniors. Emphasis is on the behavioral characteristics of the Eastern European political systems, including problems of interbloc ideological coordination, economic cooperation, and national communism. Three hours a week. *Three semester hours.*

SEMINAR IN SELECTED TOPICS

GV490

Required of all honors' candidates during the second semester of the Junior year. Opened to others with permission of the Department Chairman. This course deals with the writing of special papers and research methods. Three hours a week. *Three semester hours.*

Psychology

Dr. J. Edward Conners, Chairman

The psychology department offers a program of study leading to the A.B. (non-teaching) or B.S. (non-teaching) degrees in psychology as well as course work required for degrees in education.

The psychology major is first of all a scientist—a scientist interested in behavior. The department therefore believes that its psychology majors should receive a thorough preparation and education in the fundamentals of the scientific method and experimental design and analysis. The program in psychology consists of 24 credit hours which must include all of the following courses: Py101, Py103, Py104, Py203, and either Py410, 470, or 490. These required courses must be taken in the sequential order indicated since each course in the series builds upon the preceding courses. Two or more required courses cannot be taken concurrently, except for Py103 and Py104 which may be taken together in the same semester. Students should familiarize themselves with the program so that scheduling conflicts will be avoided.

All Psychology Majors are required to register as such with the psychology department in order that an advisor may be assigned to help the student plan his program of study.

A psychology minor is comprised of 18 credit hours of which only Py101 is required.

Satisfactory completion of Py101 is a prerequisite for all advanced courses.

INTRODUCTION TO PSYCHOLOGY

PY101

Required of all Freshmen in the teacher preparation curricula, elective

for others. The course covers the fundamentals of the scientific study of behavior. Three hours a week. *Three semester hours.*

INTRODUCTION TO STATISTICS

PY103

This fundamental course prepares the student to read the research literature in the social sciences, to undertake courses in experimental psychology, and to advance to more sophisticated courses in statistics. May be taken concurrently with PY104. Three hours a week. *Three semester hours.*

ADVANCED GENERAL PSYCHOLOGY

PY104

To give the student a more sophisticated understanding of himself and his society through reading and guided experience in the experimental analysis of the behavior of organisms. Required of all psychology majors. Two one-hour lectures and one two-hour lab. *Three semester hours.*

CHILD PSYCHOLOGY

PY201

Required of sophomores who plan to elect the Elementary or Kindergarten-Primary Curriculum. The course presents a systematic, integrative, and interpretive description of the psychological development of children from birth through adolescence. Three hours a week. *Three semester hours.*

GENERAL EXPERIMENTAL PSYCHOLOGY

PY203

Prerequisites: PY101, PY103, and PY104. An introduction to experimental methodology in the scientific investigation of behavior. Two one-hour lectures and one two-hour lab. Required of all psychology majors. *Three semester hours.*

ADOLESCENT PSYCHOLOGY

PY231

Required of Sophomores who plan to elect the Secondary curriculum. This course focuses on the developmental tasks of adolescence, the transitional period from puberty to adulthood. Three hours a week. *Three semester hours.*

SOCIAL PSYCHOLOGY

PY301

An introduction to the study of behavior of the individuals in groups and his interaction with those groups. Under consideration will be such topics as attitudes, language, group interaction, and role theory. Three hours a week. *Three semester hours.*

PSYCHOLOGY OF LEARNING

PY304

Prerequisites: PY101, PY104. A fairly intensive study of the principles of learning including classical and instrumental conditioning, reinforcement, extinction, discrimination, verbal learning, etc. Two one-hour lectures and one two-hour lab. *Three semester hours.*

PSYCHOLOGY OF CREATIVITY

PY305

A review of current research in the general area of creativity. Emphasis on experimental investigation and empirical findings. Recommended for psychology majors and education majors. Three hours a week. *Three semester hours.*

EDUCATIONAL PSYCHOLOGY

PY310

A study of psychological facts and principles fundamental to education, teaching, and personal relationships between teacher and learner. Learning and the various factors affecting classroom behavior will be discussed. Three hours a week. *Three semester hours.*

PSYCHOLOGY OF EXCEPTIONAL CHILDREN

PY312

Prerequisites: PY101, PY201, and PY310. This course covers the characteristics, problems, and educational provisions for the mentally retarded (both trainable and educable), brain damaged, gifted, deaf, hard of hearing, blind, partially sighted, and those with speech defects. Elective for Juniors and Seniors. Three hours a week. *Three semester hours.*

THEORIES OF PERSONALITY

PY401

Prerequisites: PY101 and six hours of additional study in Psychology. This course is designed to acquaint the advanced student with the major psychological theories explaining the structure and dynamics of the human personality. Three hours a week. *Three semester hours.*

ABNORMAL PSYCHOLOGY

PY403

This course is concerned with the development of concepts and principles of unusual mental activity with special emphasis placed upon the relation of those principles and concepts to general, child, and adult psychology. Three hours a week. *Three semester hours.*

PSYCHOLOGICAL MEASUREMENTS

PY405

This course includes the historical background of psychological testing. It also covers elementary statistical concepts, test standardization, the 1960 Stanford-Binet and Wechsler scales, tests of aptitude, achievement, personality, attitudes, and projective methods. Three hours a week. *Three semester hours.*

PSYCHOLOGICAL RESEARCH SEMINAR

PY410

Prerequisites: PY101, PY103, PY104, PY203 and six additional hours of study in Psychology. This seminar offers a program of directed study in the formulation of a research problem, the design of an experiment, the analysis of data, the interpretation of data, and the writing of a report which adequately communicates these procedures. Required of all candidates for the major in Psychology except Honors candidates (who should elect PY490) or students who elect PY470 (Practicum). Only seniors are eligible. Three hours a week. *Three semester hours.*

PRACTICUM IN PSYCHOLOGY

PY470

Prerequisites: PY101, PY103, PY104, PY203, and six additional hours of study in Psychology. This course is designed to provide the advanced student with an opportunity to obtain practical experience in a field situation. Students are required to write a comprehensive evaluation and report of their experience. Placements must be arranged through and approved by the Psychology Department. Only seniors are eligible. Work hours to be arranged. *Three semester hours.*

PSYCHOLOGY HONORS

PY490

Prerequisites: PY103, PY104, PY203, and approval of the candidate's application by the Honors committee. Elected in the final semester of

the senior year in place of Py410 (Research Seminar) or Py470 (Practicum). Open only to outstanding psychology majors who display not only the minimal grade-point average of 3.0 or above (accumulative for all courses taken in college), but also the ability, initiative, and persistence necessary to do independent research. Class meets once a month in informal sessions to discuss research ideas, thesis proposals, and data analysis. Students must write an Honors thesis of acceptable quality (grade of A or B) based on original research in order to graduate with Honors. *Three semester hours.*

PSYCHOLOGICAL FOUNDATIONS OF EDUCATION—PART I

PY501

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Three hours a week. *Three semester hours.*

PSYCHOLOGICAL FOUNDATIONS OF EDUCATION—PART II

PY502

This course is an advanced systematic exposition of various psychological principles related to teaching, with a special emphasis on the application of these principles to specific classroom situations. Four hours a week, third quarter. *Two semester hours.*

EDUCATIONAL PSYCHOLOGY

PY522

A required course in the Graduate School. This course will include a systematic analysis of the major schools of psychology. Three hours a week, first semester. *Three semester hours.*

Sociology and Anthropology

Dr. Lauréat J. Bernard, Chairman

Sociology as a major is opened to all B.S and B.A. candidates. Majors in sociology must complete So201, So202, So204, So402, and four (4) three-hour courses in the concentration before graduation.

A minor in sociology is available for all degree candidates, and a minor in anthropology is also offered for all interested students. The minors in either fields must include the following three (3) courses in their eighteen (18) hours: So201, So202, and So204. Naturally, a minor in sociology would take the core of his nine (9) elective hours in sociology, while one in anthropology would concentrate in that field.

All Freshmen, as of the fall of 1969, come under the revised standards established under the New Curriculum. All sociology majors matriculating for the B.S. or B.A. come under this category and must complete So201, So202, So204, and twenty-one(21) more hours in sociology/anthropology before graduation. A minor in sociology or anthropology is available for all degree candidates. Minors in either sociology or anthropology must complete the three (3) fundamental courses required of the majors, plus twelve (12) elective hours in their chosen field. So402 is recommended as an elective for both majors and minors.

All potential majors and minors in sociology/anthropology are invited to consult with the Department Chairman or his program assistants.

SOCIOLOGY

SO201

An elective for Freshmen, Sophomores, and Juniors. Introduction to the basic elements of sociological analysis. Three hours a week. *Three semester hours.*

SOCIOLOGICAL THEORY

SO202

An elective for Sophomores, Juniors, and Seniors. A background course in historical and methodical sociology. Three hours a week. *Three semester hours.*

SOCIAL STRATIFICATION

SO203

An elective for Sophomores, Juniors, and Seniors. The theoretical background to social stratification will be stressed. Three hours a week. *Three semester hours.*

SOCIAL METHODOLOGY

SO204

An elective for Sophomores, Juniors, and Seniors. An intensive study of the logical and mathematical foundations of social research. Three hours a week. *Three semester hours.*

INTRODUCTION TO PHYSICAL ANTHROPOLOGY

AN205

An elective for Sophomores, Juniors, and Seniors. The interrelationship of biological man and his culture, emphasizing the fundamentals for an understanding of man as a physical organism. Three hours a week. *Three semester hours.*

CULTURAL ANTHROPOLOGY

AN301

An elective for Sophomores, Juniors, and Seniors. An introduction to the concepts and methods of anthropology, with selected studies of primitive societies. Three hours a week. *Three semester hours.*

CRIMINOLOGY AND DETENTION

AN302

An elective for Juniors and Seniors. Analysis of the social factors in criminal behavior, crime statistics and social systems, and techniques for dealing with criminals. Three hours a week. *Three semester hours.*

RACE RELATIONS

SO303

An elective for Sophomores, Juniors, and Seniors. A survey of the ethnic minorities in the United States, past and present. Three hours a week. *Three semester hours.*

CULTURE AND PERSONALITY

SO304

An elective for Juniors and Seniors. The impact of a society's culture upon the personality of its members. Three hours a week. *Three semester hours.*

THE FAMILY

SO305

An elective for Juniors and Seniors. Study of the nature, historical development and functions of the family in various cultures, with

specific concentration on the modern American family. Three hours a week. *Three semester hours.*

THE COMMUNITY AND SOCIAL WELFARE SO306
An elective for Sophomores, Juniors, and Seniors. An introduction to social work and welfare at the community level. Three hours a week. *Three semester hours.*

URBAN SOCIOLOGY SO307
An elective for Juniors and Seniors. An examination of the city, past and present; urban living; demographic and survey data applied to the city; and urban problems. Three hours a week. *Three semester hours.*

SOCIOLOGY OF EDUCATION SO308
An elective for Juniors and Seniors. Education viewed as a social process, with probes into the social organizations of the school, school-community relationships, and the varied population groups schools serve. Three hours a week. *Three semester hours.*

SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS SO309
An elective for Sophomores, Juniors and Seniors. The historical meaning and functions of work in an industrial society. Three hours a week. *Three semester hours.*

SOCIOLOGY OF BUREAUCRATIC ORGANIZATIONS SO310
An elective for Sophomores, Juniors, and Seniors. An analysis of formal organizations in government, the economy, religion, the military, and education. Three hours a week. *Three semester hours.*

POLITICAL SOCIOLOGY SO311
An elective for Juniors and Seniors. Social forces related to political organizations will be stressed. Three hours a week. *Three semester hours.*

MEDICAL SOCIOLOGY

SO312

An elective for Juniors and Seniors. Among the subjects analyzed are the relationships between physician, patient, and society. Three hours a week. *Three semester hours.*

JUVENILE DELINQUENCY

SO313

An elective for Juniors and Seniors. A study of the nature and extent of delinquency in the United States; contributing factors; and current prevention and treatment programs. Three hours a week. *Three semester hours.*

ANTHROPOLOGICAL THEORY

AN314

An elective for Sophomores, Juniors, and Seniors. Important anthropological theorists will be tied to theoretical developments in ethnology, physical anthropology, anthropological linguistics, and theory building. Three hours a week. *Three semester hours.*

RESEARCH METHODS IN ANTHROPOLOGY

AN315

An elective for Sophomores, Juniors, and Seniors. A survey of research methods in the fields of ethnology, ethnography, physical anthropology, archaeology, and linguistics. Three hours a week. *Three semester hours.*

APPLIED ANTHROPOLOGY

AN316

An elective for Sophomores, Juniors, and Seniors. An examination of anthropological techniques, social change, with a focus upon developing countries and minority peoples. Three hours a week. *Three semester hours.*

PREHISTORIC ARCHAEOLOGY

AN317

An elective for Sophomores, Juniors, and Seniors. The study of the prehistoric cultures of Europe, Asia, Africa, and the Americas. Three hours a week. *Three semester hours.*

SOCIAL MOVEMENTS

SO318

An elective for Sophomores, Juniors, and Seniors. This course will concentrate on recent social movements, as well as on such classical groups as the Ghost Dancers of the Great Plains and the Cargo Cults of Melanesia. Three hours a week. *Three semester hours.*

SOCIAL INTERACTION

SO401

An elective for Seniors—majors in sociology. This course is designed to give the student experience in using sociological concepts to increase his understanding of social interaction in small-group situations. Three hours a week. *Three semester hours.*

SOCIAL PROBLEMS

SO402

An elective for Juniors and Seniors. Analysis of major social problems in contemporary society. Behavioral deviance such as crime, drug abuse, alcoholism, and social disorganization will be examined. Three hours a week. *Three semester hours.*





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Ed.D., Harvard University

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Ed.D., Boston College

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Diploma: University of Poitiers

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C.A.E.S., Boston College

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